THENATIONAL GEOGRAPHIC MAGAZINE

MAY, 1947

South Dakota Keeps Its West Wild

With 13 Illustrations and Map FREDERICK SIMPICH

Over Plains and Hills of South Dakota

19 Natural Color Photographs J. BAYLOR ROBERTS

Big Game Hunting in the Land of Long Ago

With 16 Illustrations and Map JOSEPH P. CONNOLLY and JAMES D. BUMP

Nautical Norfolk Turns to Azaleas

10 Natural Color Photographs B. ANTHONY STEWART

Cruising Colombia's "Ol" Man River"

With 23 Illustrations and Map 18 Natural Color Photographs

AMOS BURG

Your Society Observes Eclipse in Brazil

"Flying" Squirrels, Nature's Gliders

With 14 Illustrations

ERNEST P. WALKER

Lundy, Treasure Island of Birds

With 25 Illustrations and Map P. T. ETHERTON

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South Dakota Keeps Its West Wild

By FREDERICK SIMPICH

With Illustrations by Staff Phatographer J. Baylor Roberts

THEN Horatio N, Ross struck gold in the Black Hills in July, 1874, he started a rush that turned this South Dakota land from an Indian domain into white man's country.

Miners poured in even from Mexico and Australia, and New England clerks quit their jobs to hurry out there, many only to be killed and scalped by Indians. Few parts of our then wild West saw more frontier turbulence.

To this day, the average action-loving South Dakotan would rather tope a steer or break a bronco than stay cooped up in a house. With all its hunting, fishing, summer camps, roundups and rodeos, the State still reflects something of that blithe, hoisterous spirit which marked its audacious youth.

Straddling the swirling Missouri and stretching west from Iowa to share the Great Plains with windy Wyoming, venturesome South Dakota still woos the gods of chance. But today it bets on the weather and not on the curds, as in the noisy Deadwood gold-camp days of Poker Alice, Wild Bill Hickok, and Calamity Jane (page 557).

Today it's the farmer who is the gambler. If it rains, he hits the jack pot. But in dry years he may lose his shirt.

Farming is the State's biggest business.

Heroes in Granite

But last season's horde of visitors didn't flock into South Dakota just to watch men plant corn or thresh wheat. Many came, or stopped off when on trips to the Yellowstone country, to see that colossal shrine of democracy, the Mount Rushmore National Memorial (Plate IX and page 556).

Flere rise the stern stone faces of four Presidents—Washington, Jefferson, Lincoln, and Theodore Roosevelt—carved from a high granite peak by sculptor Gutzon Borglum.

Visible from the air for sixty miles, eternal through wind, fire, and earthquake, these giant images profoundly impress even the frivolous. Washington's aristocratic face is 60 feet long; his eye is so big a man may sit in it.

From platforms at the mountain's foot, spectators study the giant beads through binoculars set on swivels. Whatever their thoughts, some sit and stare for silent minutes.

To others this great sculpture recalls that heroic figure of Darius at Persepolis or the winged bulls of Ninevell.

I wanted Washington to open his tight stone lips and start giving his famous Farewell Address.

I thought, too, that a fine elocutionist such as movie actor Charles Laughton, or Maurice Evans the Shakespearean, should go up there and make a radio broadcast of Lincoln's Gettysburg Address, or read the Declaration of Independence through Jefferson's stone mouth, by Nation-wide bookup on July 4th.

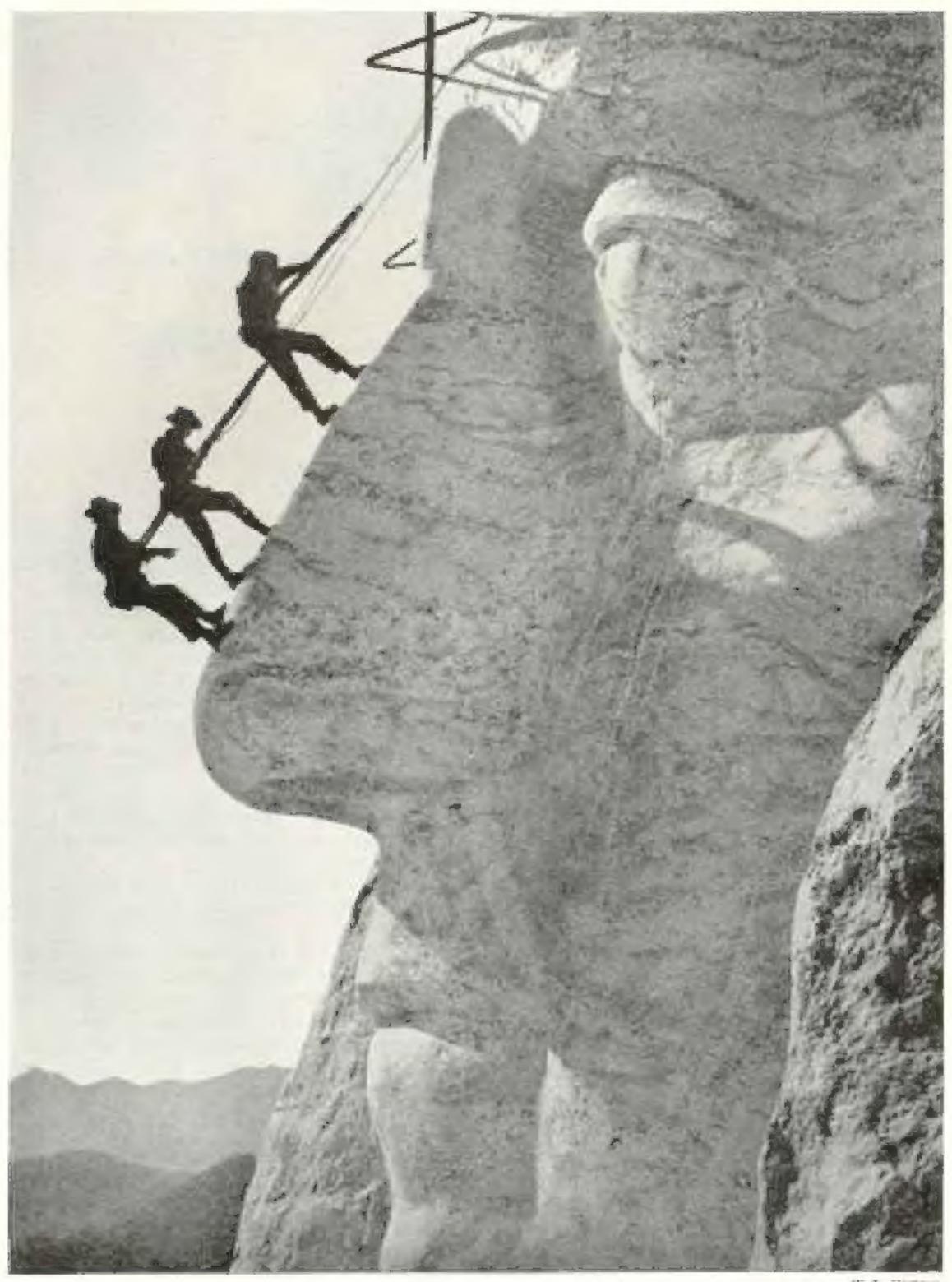
Black Hills a Museum

The Black Hills are like a great museum—what to see pext!

There's Deadwood! Prowling the night spots of this once-gambling, gun-fighting gold camp brings a vicarious fling of sporting life to many.

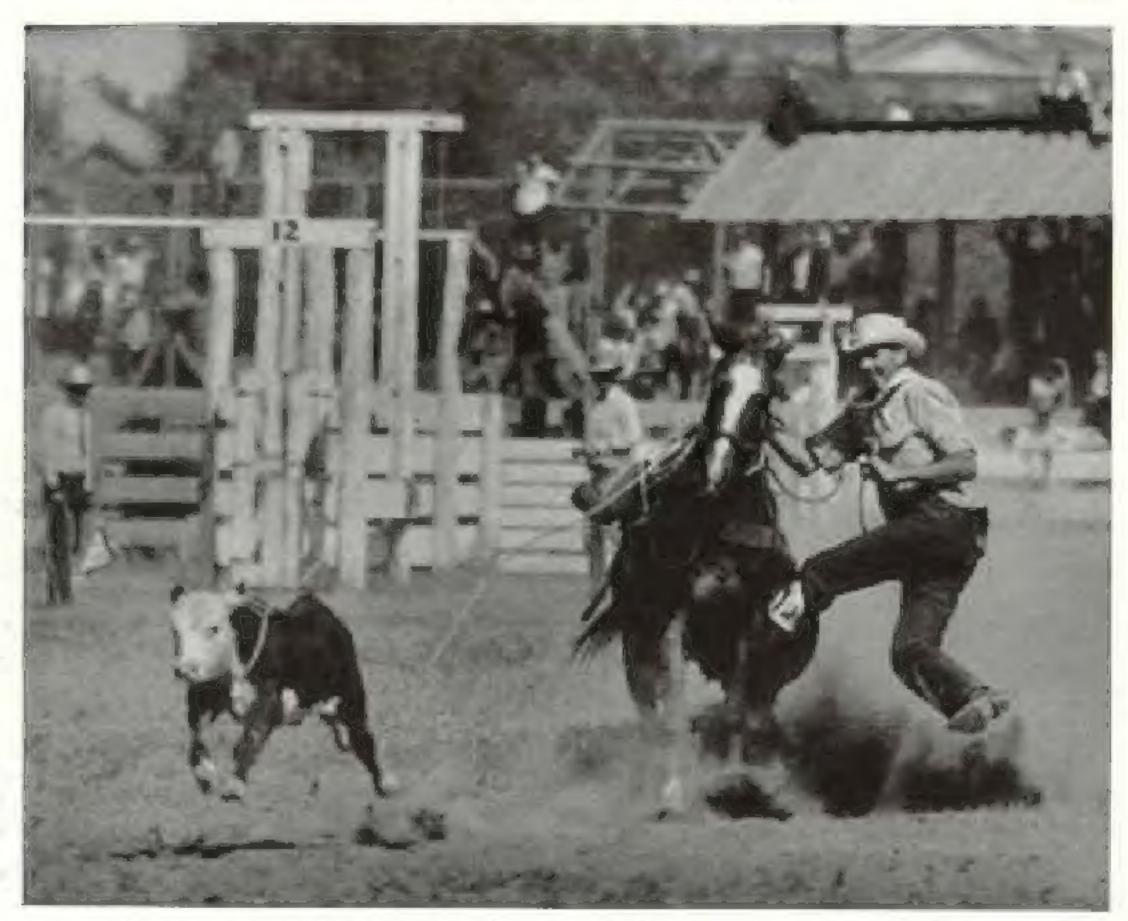
I know lovers of western history who drive

* See "Black Hills. Once Hunting Grounds of the Red Men," in the NATIONAL GEOGRAPHIC MAGAZINE, September, 1927.



W. L. Highen

Like Human Flies on a Skyseraper, Stonecutters Tickle the Cold Stony Nose of Washington Across the granite face of Mount Rushmore, in the Black Hills, sculptor Gutzon Borghum (lowest of the climbing figures) carved giant brack of Washington, Jefferson, Theodore Roesevell, and Lincoln (Plate IX). In thousands of years, it is estimated, wind, water, frost, and non-will crede the faces only a fraction of an inch.



This Remarkable Shot Shows Man and Calf with All Feet off the Ground

Rider here has just roped his call and is keaping off to tie it. The trained cow pony slides to a stop on his haunches the mament he sees the rope settle over the call's head. This stops the "dogie" with a jerk, and the horse holds the rope tight while the rider runs forward to secure it. Rodeo at Belle Fourche, Black Hills.

balfway across the continent just to see Dead-wood's annual "Days of '70," wherein Jack McCall again kills Wild Bill Hickok and Istried by a kangaroo court. Deadwood's talented presentation of The Trial of Jack McCall has already run for years and still it packs them in!

One night I got a summons to sit on that McCall jury. I heard Calamity Jane testify; later she showed me some of the notorious old gambling places, and I met a man who knew the real Calamity (Martha Jane Burke).

She was in turn bullwhacker, Army scout, and brawling virago; but when smallpox laid Deadwood fint she became ministering angel to the sick and dving, and when she was buried here on Mount Moriah, beside other characters famous in early Black Hills history, thousands crowded to hear the preacher praise and bless her.

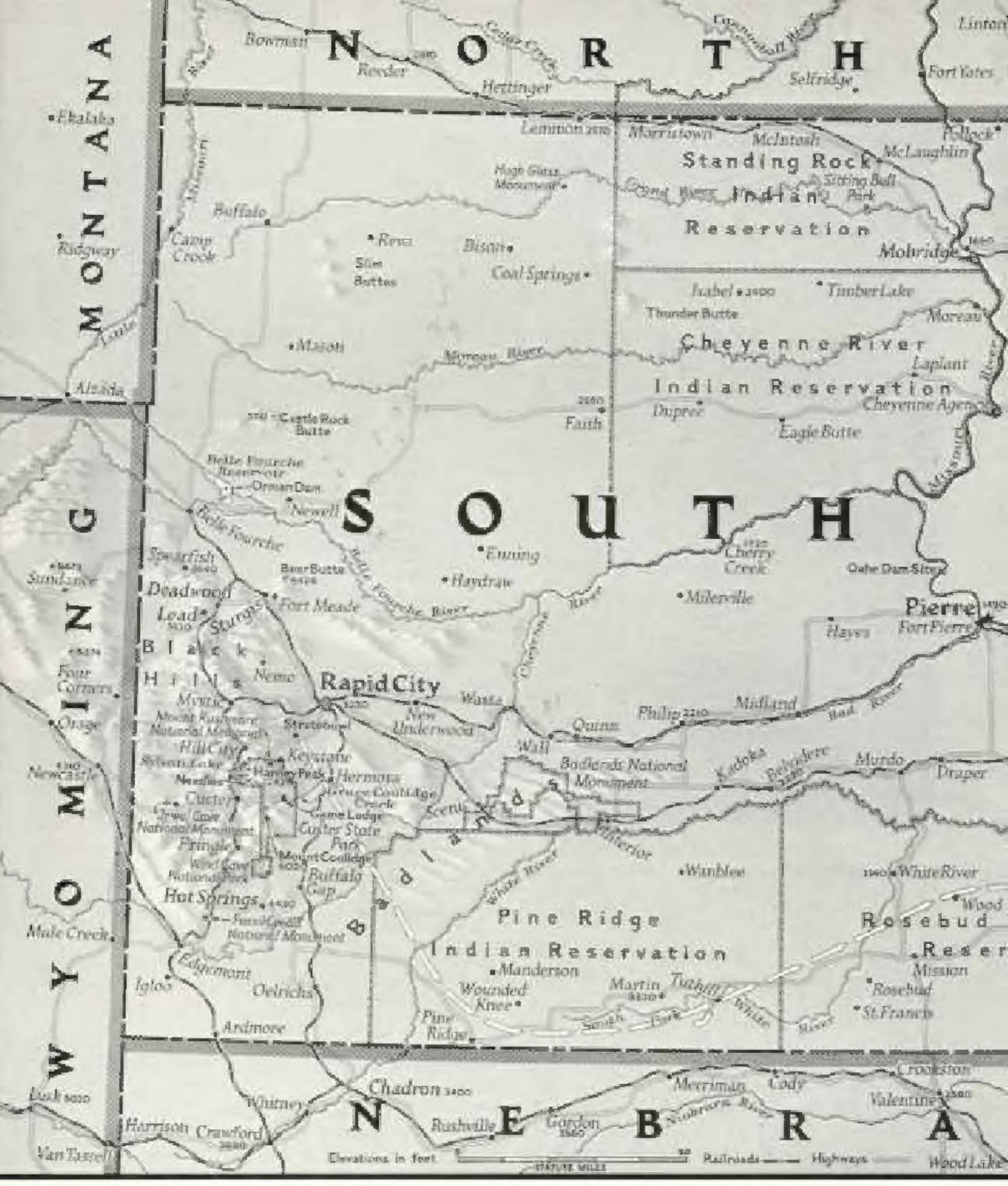
If you prefer speleology to gold-camp phantoms, you can take the trails down into the cool depths of Wind Cave. It charms geologists, and is fine for lovers who fain would steal a subterranean kiss!

A Noisy Gold Mine.

Beneath the hilitop town of Lead lies the richest gold hole in the Western Hemisphere, historic Homestake Mine (pages 561, 574). From it has come more than \$400,000,000! Exploring it is a trip through treasure dens of Ali Baba. In a flying cage we dropped nearly a mile so fast our ears popped.

Away down here, unsuspected by visitors riding over paved roads far above, is a subterranean highway system—80 miles of rail-road, with tiny coaches drawn by compressed-air engines—whistles, hendlights, switches, engineers, stations, main lines and spurs!

Bang! It sounded loud as a to-inch gun. I never knew a gold mine could be so noisy. "That's just a blast," they said, "to shake loose more ore."



Down a long chute, making still more thunder, came tumbling tons of loose ore, to be dumped into bins and hauled up to the stamp mills on the surface.

Cables, long, slick, and greasy-fooking, run over giant drums which revolve smoothly at each shaft mouth.

They raise and lower the cages: I watched a calm, bookish-looking man softly pushing tiny buttons that sent these cages, laden

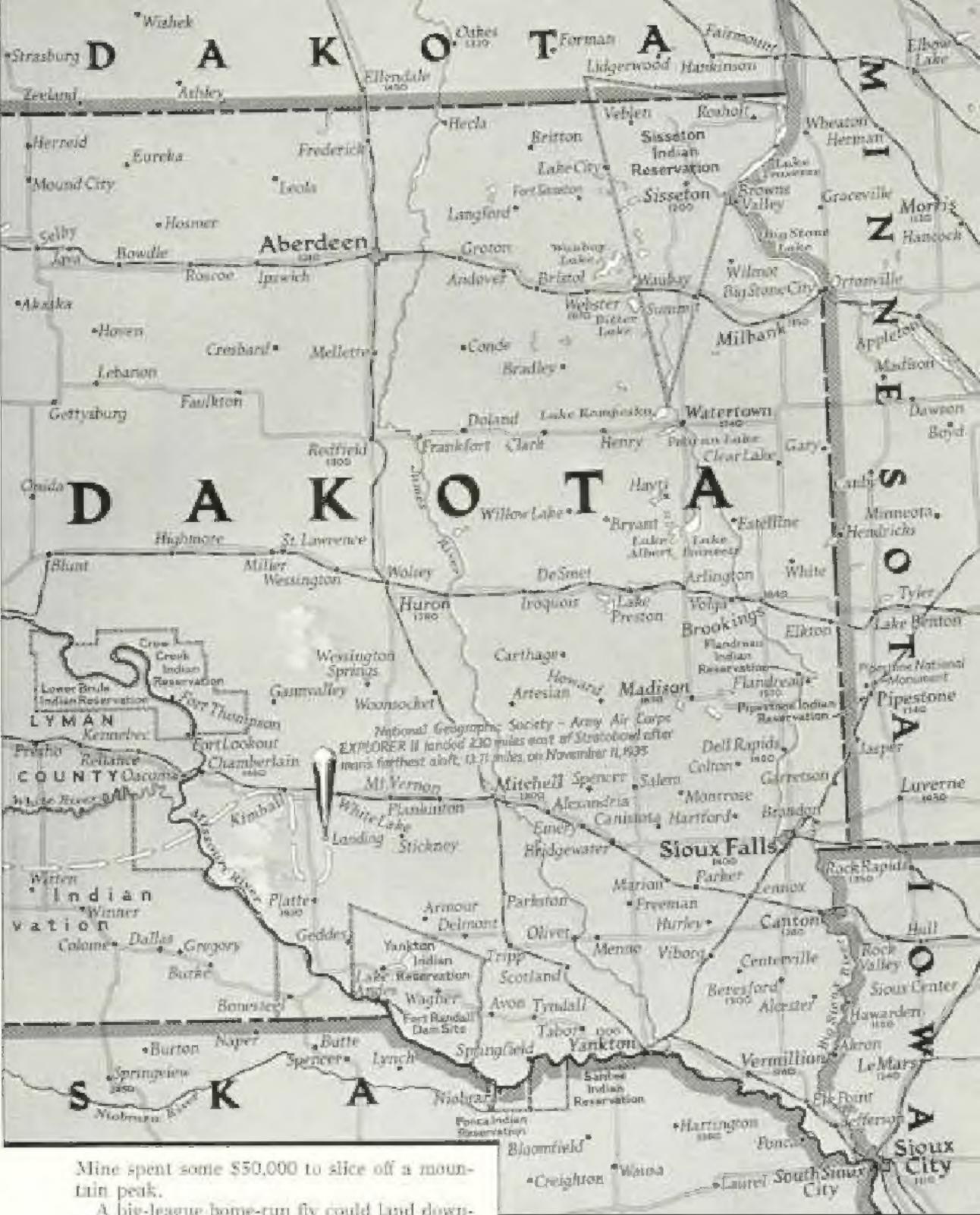
with human freight, flying up and down.

Don't you feel responsible for all those dirty-faced men with little lamps on their caps?" I asked.

"I am responsible," he said simply, and pressed another button!

But no South Dakotan is happy spending his whole time and energy just making a living. These people also like to play.

To make a baseball diamond, Homestake



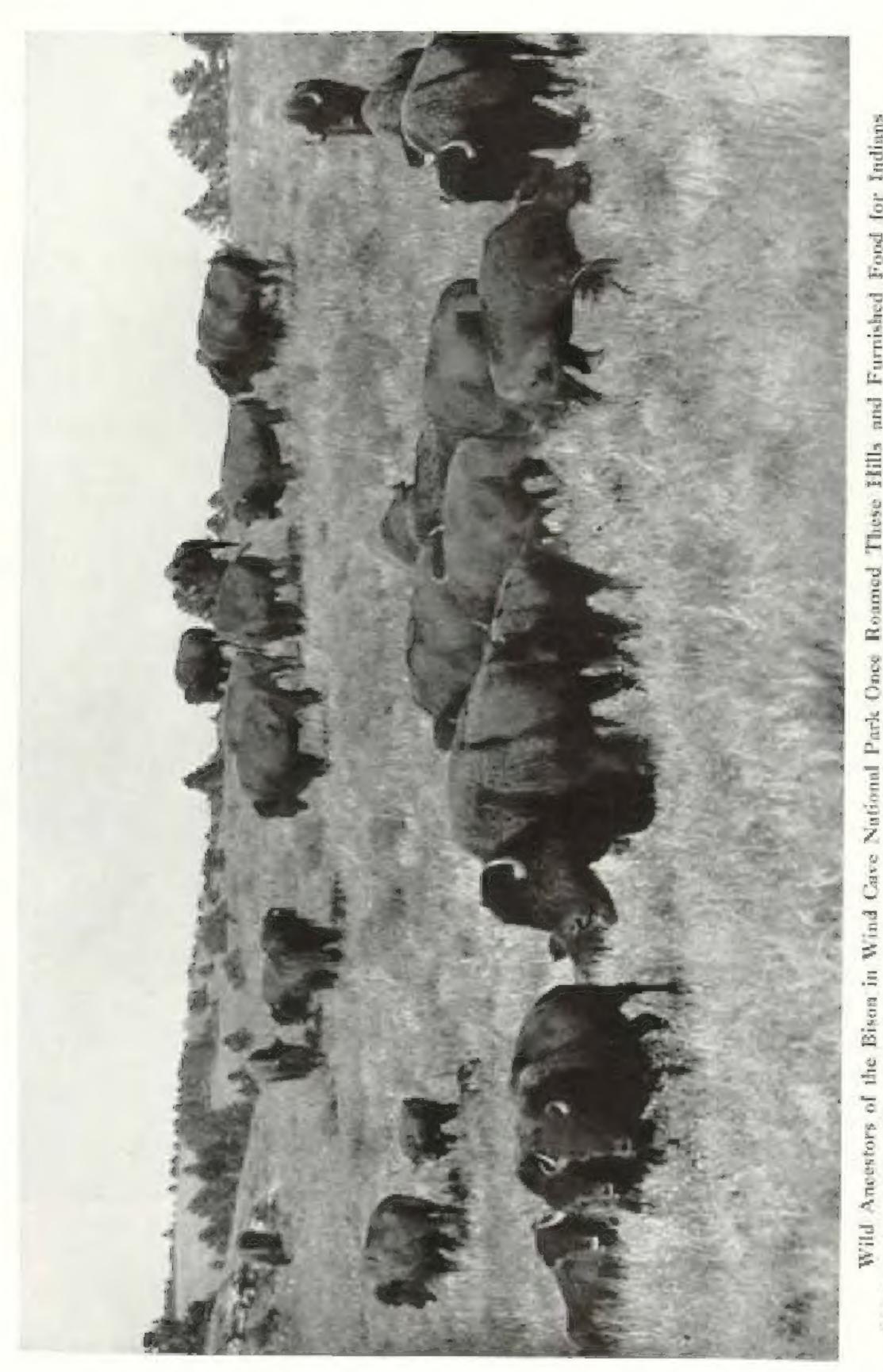
A big-league home-run fly could land down-

hill almost in another county!

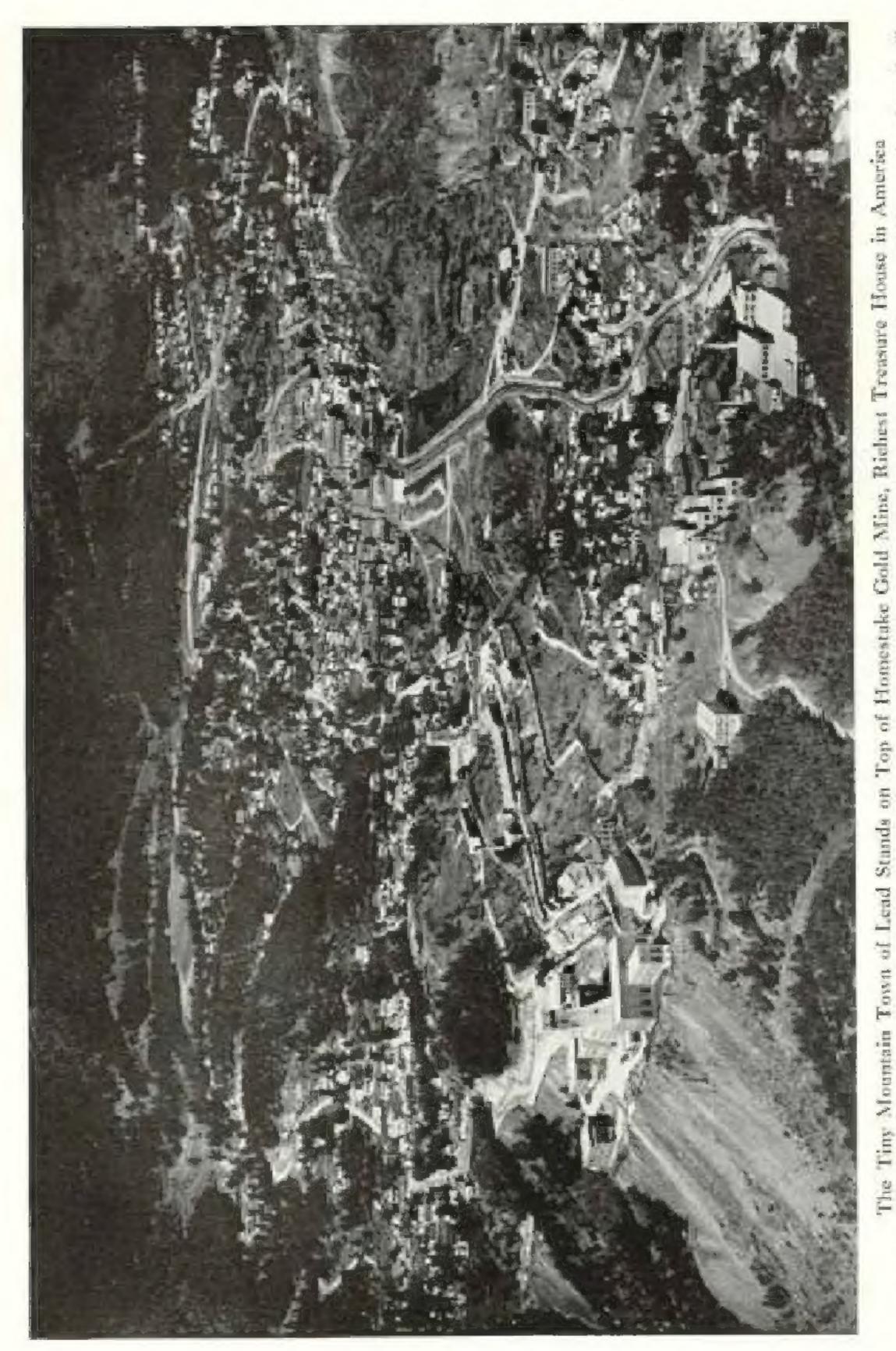
Excavating so much rock and ore out from under it, as mining spread, caused whole business blocks of the original town to sag, subside, and collapse. But Lead's vast model auditorium is one of the State's finest pieces of architecture.

Great Plains Sweep Across South Dakota

First pioneer route to our vast Northwest was the Missouri River, which hisects this State. East of it new lie fortile farms; to the west, the Badlands and Black Hills with grant stone faces carved on Mount Rushmore by Gutzon Bargiam; to the northwest. cattle and sheep ranches.



S. Biological Survey, the American Bhon Society, and the New York Zoological Society. Grazing on ng no other fording. In winter the hardy beacts sweep away as much as 50 mches of snow to uncover S. District Attorney George Philip, of Rapid City, took two bullate bulls to Mexico National Park Once Roamed These Hills and Furnished Food for Indians ago, as a youngsler, U. 28,000 acres, some M5 animals winter here on grass alone, requiring no other feeding, the grass by swinging their life heads from side to side. Years ago, as a youngster, U and entered them in avenus (here to right Moxican bolb., The bison were victors. This herd was started in 1915, with help from the former



Everybody here, directly or indirectly, makes his living from the pold mine's operaparts of the town have caved in, buildings and all, because of old excavations beneath, gold camp, lies a few miles down the canyon (page 555) Boneath the mine buildings at left, elevators desernd near build a baseball diamond in this rugged terrain, a mountain thous toures 557, 574). Elistoric Deadwood, once also a rich

I wish I might write a whole article just about this amazing Homestake Mine, whose labor relations have been satisfactory!

If you get to Rapid City after dark, be careful next morning; keep calm when you

first glance out your botel window,

Luping right at you, from high up on the skyline, is a dinosaur big as a boxcar. Farther back are still more monsters, some with notches down their backs like saw teeth. They look alive, these man-made efficies, as if they'd just walked in from the near-by Badlands.

Study their skeletons, at the South Dakota School of Mines and Technology in Rapid City, and think what roaring grants rose when these mousters were feeding, fighting, and mating!*

Lovesick house cats make noise enough. Think of a night brawl between a pair of beasts weighing 40 tons each! "And think of the meat that was on them," said a visitor who wanted a steak, looking at a big skeleton in the museum at the School of Mines.

What Are the Badlands?

Southeast of the Black Hills lies that 5,200 square miles of eroding silt, clay, and dust known as the Badlands, a region where overwhelming elemental forces run amok (map,

pages 558-9),

From a Piper Cub we looked down and saw how, with cancerous, trablike crawls, erosion steadily increases the Badlands area. Crumbling canyons creep persistently into adjacent grasslands, looking from above like patterns of giant coral or mile-long maple leaves.

With kaleidoscopic thythm the patterns changed as evening shadows crawled across this abysmal wilderness. In fancy there emerged then the shapes of the Pyramids, Gaillard Cut, Great Wall of China, Kremlin, Linear, and the Taj Mahal; Morro Castle, Albambra, and temples of the Axtecs and Maya.

It's the slow disintegration of these odd-shaped hills that wears away the Badlands. They blow down, and wash down, to run as mud and slime into the White River, thence into the Mississippi, finally to be dumped into the Gulf of Mexico.

Time beyond count passed since the waters failed and giant animals died here. Some big

*See "Big Game Hunting in the Land of Long Ago," by Joseph P. Connolly and James D. Bump, page 589, this issue of the National Groundwice Macazing.

† See, in the National Geographic Macazine, "Exploring the Stratusphere," October, 1934, and "Man's Farthest Aloft," January, 1936, both by Copt. Albert W. Stevens. ones were flesh eaters; positions of bones show how some of their victims died struggling.

Now only small animals exist. Coyotes chase chipmunks at dusk, and prairie dogs waddle and whistle across this waste.

Prairie dogs are quick as lightning. Shoot one and instantly his playmates grab him and drag him down their hole.

Farthest Aloft

Years ago, from miles up in the air, the NATIONAL GEOGRAPHIC MAGAZINE made pictures of these Badlands during history's

greatest balloon adventure ?

On November 11, 1935, in a flight jointly sponsored by the U.S. Army Air Corps and the National Geographic Society, Capt. (now Lt. Col.) Albert W. Stevens and Capt. (now Maj. Gen.) Orvil A. Anderson ascended in the gondola of the Explorer II, the world's largest balloon, to an officially recognized altitude of 13.71 miles. This was and still is the highest point up in the sky ever reached by humans (Plate XVI).

The balloon which rose from the Stratobowl, near Rupid City, carried nearly a ton of scientific instruments and brought back to earth

upparalleled scientific data.

It landed 12 miles south of White Lake, South Dakota, after a flight of 8 hours and 13 minutes, during which the balloonists talked by radio with Washington, San Francisco, and London, and were heard in South Africa and Australia.

"We owe much to that flight," said General of the Army H. H. Arnold, when Commanding

General of our Army Air Forces.

The atomic bomb itself was developed in part from cosmic-ray counts recorded on that perilous aerial voyage on which, to keep from dying of cold and lack of air, Stevens and Anderson had to ride inside a scaled gondola provided with oxygen.

It was made of magnesium, then called Downetal." That was a pioneer aerial use of this new, light, stout metal, now in universal

use in alreraft.

General of the Army H. H. Armold, in a letter to President Grosvenor of the National Geographic Society, dated November 7, 1945, wrote:

"As you and I well remember, Sunday, Armistice Day, November 11, 1945, marks the tenth anniversary of the free balloon stratosphere flight which the National Geographic Society sponsored with the Army Air Forces, when the world's record of 72,395 feet was established.

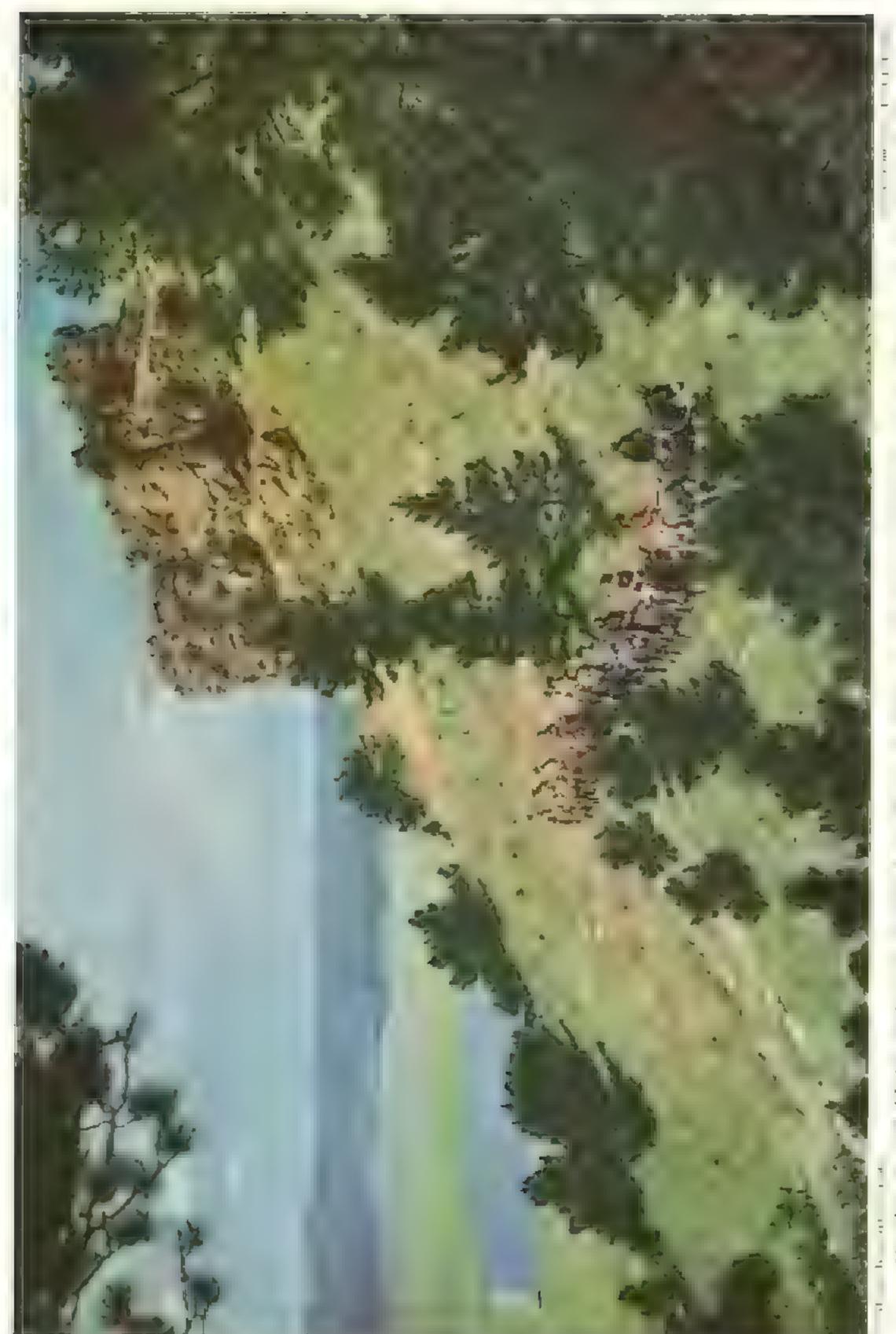
"Congratulations are in order on this occa-

sion. We owe much to that flight.

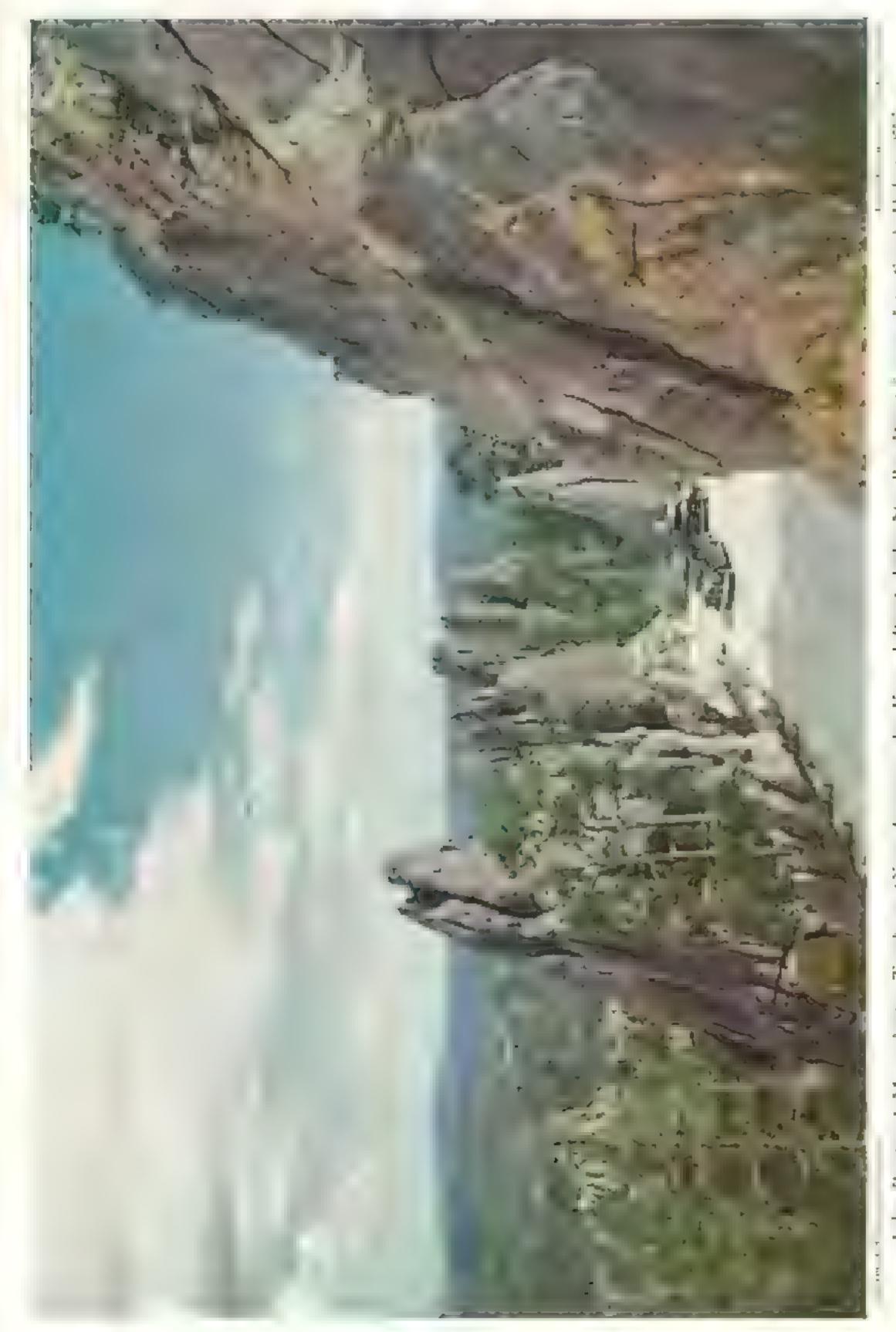


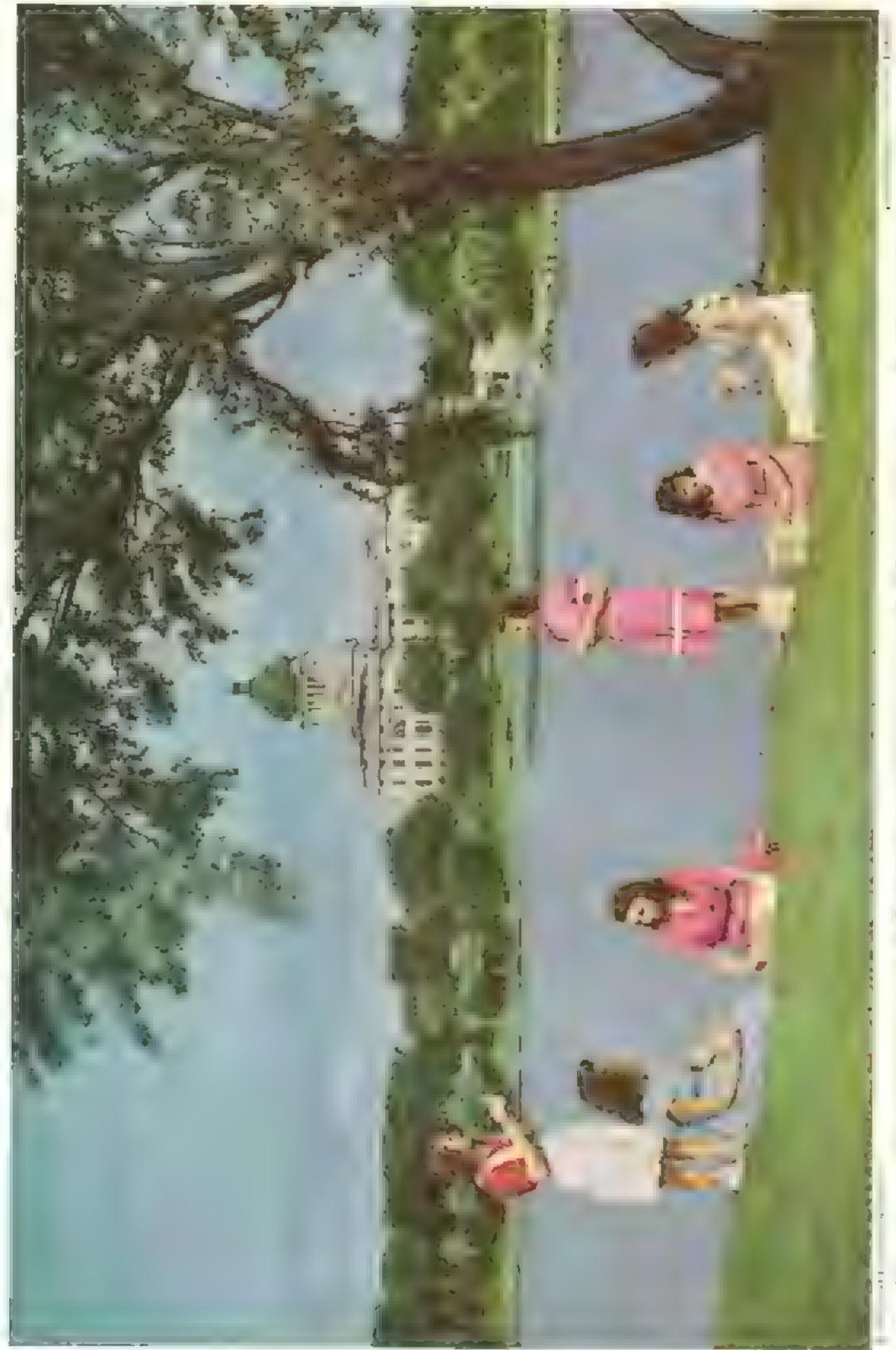
This Striking Mural in the State Capitol at Pierre Portrays South Dakota's Progress

The panel was painted by Edwin H. Blashfield. South Dakota, the central figure, is led forward by Hope, top femule figure. Settlers help her conquer the Indians as Evil sholks away. Below is the State fing, designed by Mrs. Ida A. McNeil, of Pierre. On the reverse of the blasing son appears the State's great seal, in dark blue.



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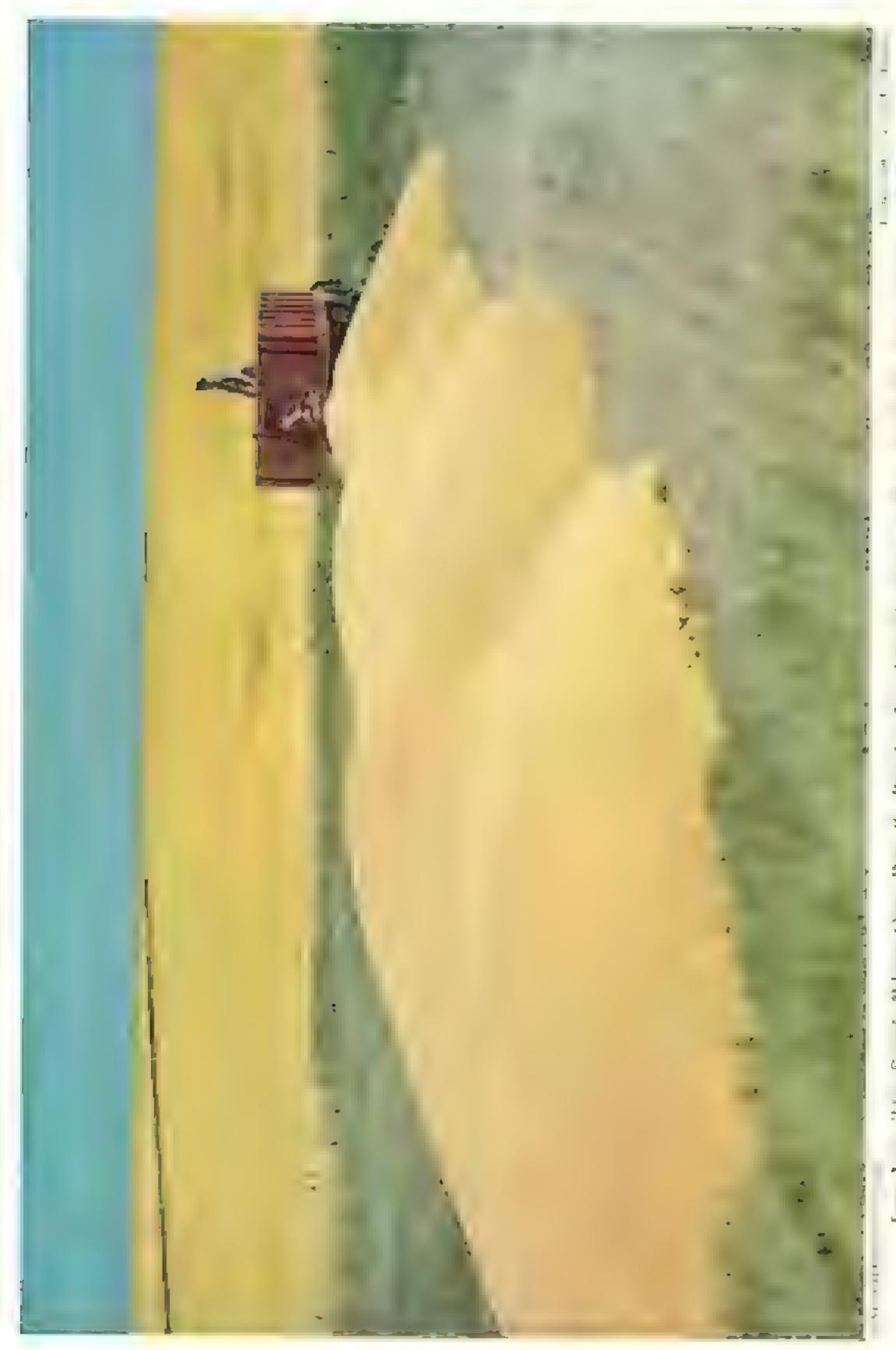
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The contributions by your Society, the scientists you interested in the pioneering effort, and the cooperation you gave the Army Air Forces of referrit in World War II for in advance of what was imagined to be the results at the time.

"We learned how valuable magnestical design, for here was a metal lighter than aluminate, yet stronger; and the trip where no man had been before proved the selection of the metal to be wise. More was learned about 'pressurized calums,' two-way short-waye radio communication, and the use of electrically beated flying suits; and advancement was made in the little-known field of aviation medicine.

"Many other items of equipment and thethous were improved which later played important parts in girdon American airpent and Tokyo,"

tion went up, fully 50,000 spectators were present, many baying waited all night in the cold to see the ascent. Some came from 300 and 300 miles away.

These stouthearted sons and daughters of South Dahota pinneers are a surere, renerous people. Their kindness to the scientists was number.

Amazing Caster State Park

South Dakotans are steady visitors to the Black Hals and their amazing Custer State Patet. Have Stands 7,242-foot Harney Leak, Hard by rise the majestic Needles, strange stone obelisks that point up like the supplicating ingers of pagen gods (Plate III).

Filmeral forests drape these hills of glittering blue lakes, murrouring brooks, and grassy valleys where buffalo graze and oper total play and it is a little of our that soletan Seventa Day when God had finished the world, and rested.

Civilization's only marks are a few small lodges and callins and the winding, climbing trads, without which pobody could see these wonders.

President Coolidge brought his family here in 1927 and turned this park's Game Lodge into a sammer White House. Miners and compunities still speak fondly of that quet, unpretentions family.

Mrs. Coolidge became so popular that they changed Squaw Creek's name to Grace Coolidge Creek; they named Mount Coolidge for the President. More to his taste, they clammed off a big hole in a creek and threw scores of hungry trout into it.

All Mr. Coolidge had to do was drop in his hook and jerk out one big hish after another? If he ever suspected a prank had been played on him, he never hinted at it; he just kept on catching fish, which was his way!

Region of Furms and Factories

While these Black Hills truly are the show window of the State, its food crops come more from other sections.

Rice east and you find that most rich farms, prosperous trading cities and their factories—inclusing Sioux Falls, the metroposis—lie along the Missouri River or on toward the Towa and Minnesota lines.

Whites had settled hereahouts years before that eventful filack Halls gold strike.

Two French brothers comped near where Fort Herre now stands 61 years before Lewis and Clark ventured up the muddy Missouri, They wrote that they "deposited a tablet of lead" here and wished to "take the latitude," but their setulabe was broken.

I saw that plate in the museum at flerre! Little Hattie Foster, a girl of Fort Pierre, picked it up an a near-by hall one Sunday some years ago. On it is a date. March 30, 1743, and a Latin instriction printed with die-pauch type... In the 20th year of the reign of Louis XV... most illustrious Lord.... Pierre de La Vérendrye placed to...

A. H. Pankow, of the State Righway Commission, was with me, "You're like all other writing people—you want to stand and state at that old plate. Those dead Frenchmen can't help you with your story. They can't read the National Grockaphic! But there's plenty of very-mach-alive South Dakotans who do. Why don't you get in a police car with highway part in a are't have a had a

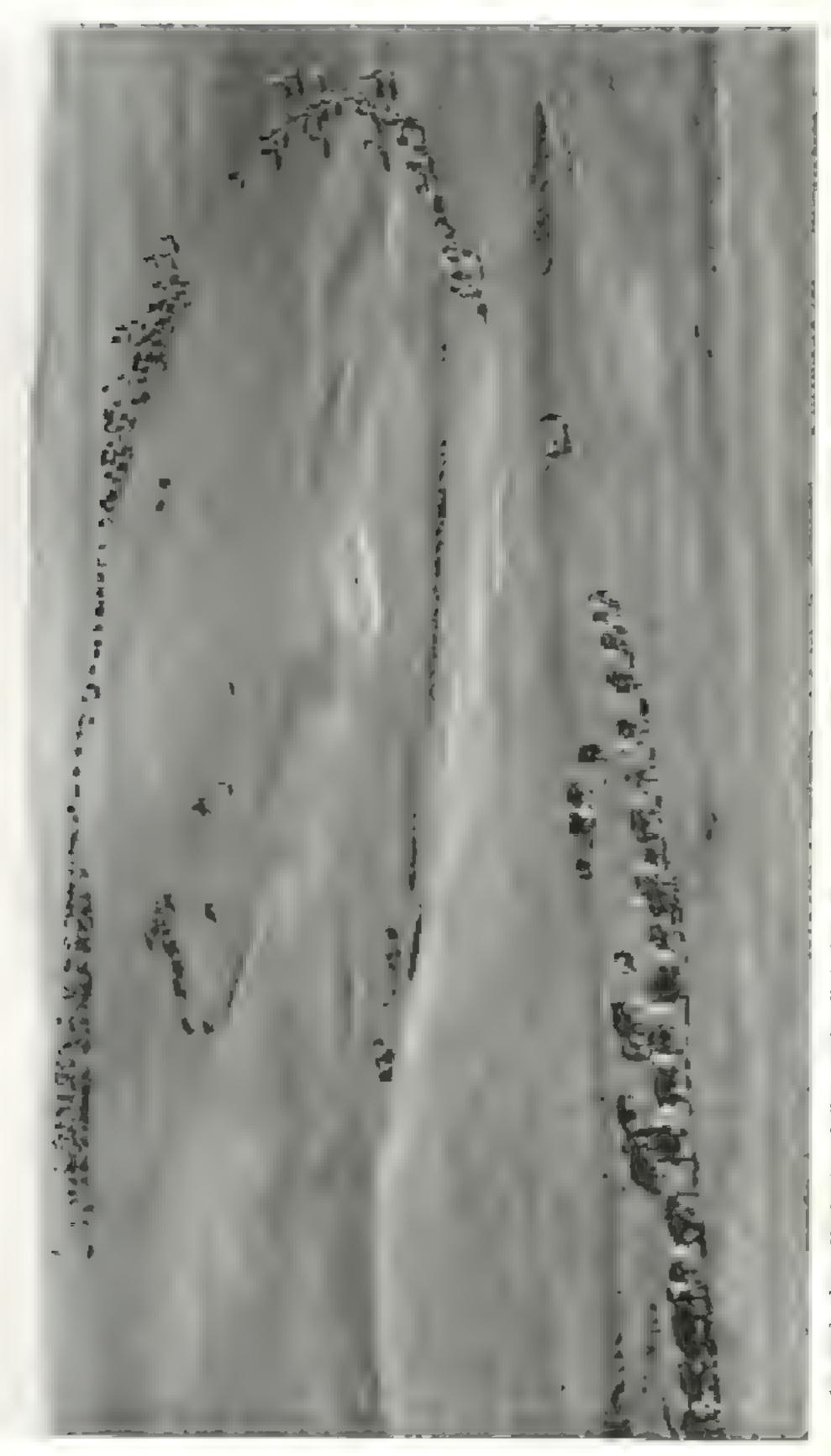
I did. Radiotelephone tied us with police stations in distant cities and with other patrol curs. Hour after hour, hollow metallic racio voices spoke... "Farmhouse afterwest of Watertown"... "Woman killed in smashup on Route 16"... "Calling all cars! Watch for stown Buick, tag number..."

When I wanted to reserve a hotel room in some from ahead, the obliging barness bull just reached for his radioph me.

New Wealth in Wheat

"Cal. the State Agricultural College at Brookings," I suggested, and see if Dr. N else. Hansen is there." He was, Hansen is one of three men who brought hard wheat into our States.

Dry-country forage plants brought from Soviet lands Ly Hansen are also changing the



Make the west Great Histor Wash Over the Hall will temples as Throughert Sur who I of Wille-land Sums Soul I distract



on Succulent Wild General North Charle Rock Home March by Characands board Southwest South Da In Amy Treeless Milns of



"Bull-Sugair,"—o Rule Dres from His Romang Horse Geals a blacent Steer's Herry, and Twiss Him David on Mrs Bick



11. Is Stangung Gold Bars to Show Weight and Origin

The contains write about \$15,000 cmb, are now 4.25, as Homestake M. contained bout a Dakot. The contained are contained at the contained at th

whole aspect of grazing in the Midwest and

In the summer of \$27," said Hansen, "I was east of the Van Raset in a dry step or on Hundreds of camels passed us with the last of the U. in, In chaking that I prove that I work you had been at the cames appeared well nourished.

The reason was a native grass called extends I amought the first samples to America, along it is called created wheat grass.

bothe observers say this grass will soon on rundlings of acres of the dry prairie regions thank western States and western Canada. In glad I had a wet sponge that day."

As whites poured in produced in the state white the take of the take of the state o

Thoras, and Thomas

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The Morrell Company was a neded at liesed ford. England, in 1827. Later It came to the

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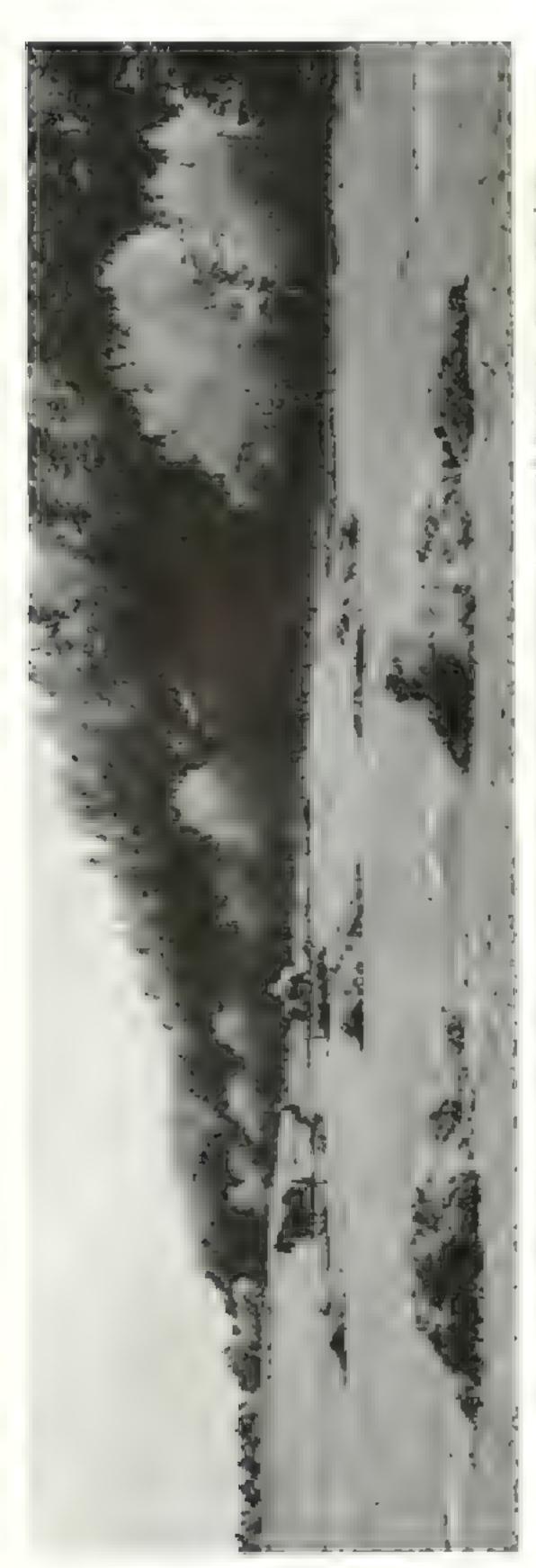
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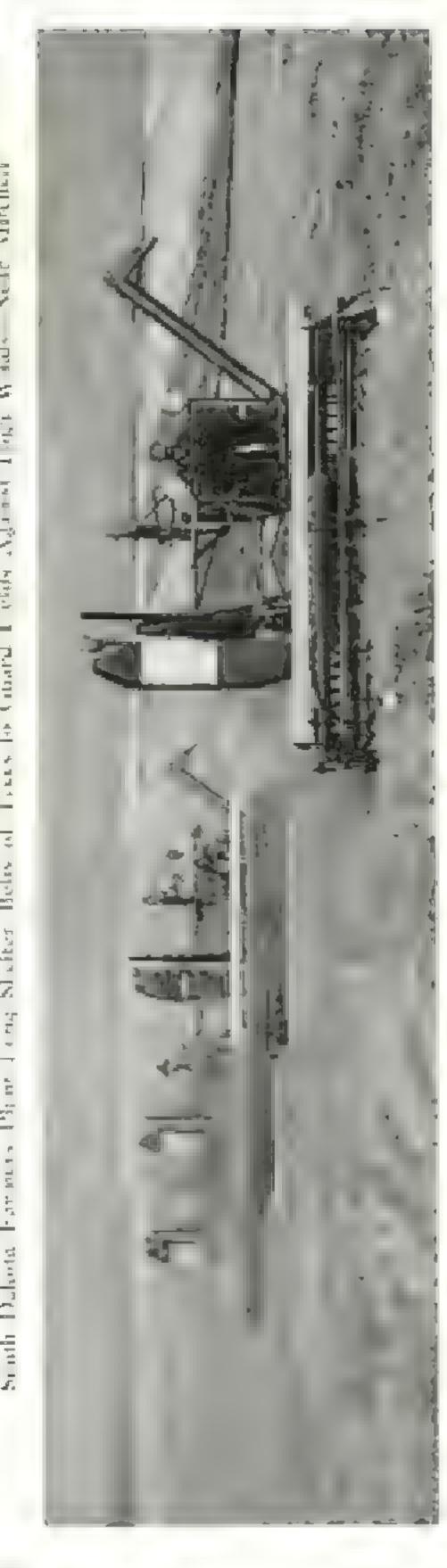
We use other prethods, too. One is besttrice in the great few and many man in the if the cross of movement the state for the gets there, that stops it. We also use that trucks to drag a mat of thousand and asbestos



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efter Boles of Leas to Guard I olds Agreed I with Weds News Meridian Senth Dahota Parmers Phys. Leng M



Causing and Three sing Wheat, Peng & M.

blankets to smother fires, and some use tracks with water-spray pumps."

Most experienced ranchers, along toward August when it gets dry, prepare fire-guard strips around their baystacks and buildin --

Lightning storts some fires. Others may in the light and the control of the light store o

people start the most.

This State truly is farm-minded (Plates VI and VII). In all our land I never saw better cultivated compthin in the fertile stretch

from Shork Falls to Vankton.

trom the farm or liege at Brookings, where we talked to Dr. Hausen (page 5.1), thousands of boys and gitls have graduated. Others have been educated at the University of South Dakota in Vermillion, at Rapid City's South Dakota School of Mases and Technology, and in other fine seats of learning at Aterdeen and elsewhere (Plates XII and XV)

"Show Me the Indians!"

But when you scan the campus crowds and glunde into classrooms, you ask, "Where are all the Indanes of college age who live in South Dakota?"

Maj. John R. Breman built the first house in Rapid City. His widow still lives there. She showed me her husband's diary. Its first

entry reads:

"May 4, 1875. Wm. Cogan mandered by Indians, scalped and cars rut off." Page after page, they after day, is full of similar entries. All along these Black Halls roads are graves of whites—miners, traders, in angrants, selders—pray express riders—unknowns—"killed by Indians."

In peludramatic South Dakota annals Indians have been both villains and better.

"Show us where Sitting Bull was killed in the Messiah War," so many torrists say That was at Sitting Bull Park, in the northern part of the State, and here's a tale: The day he was shot, Sitting Bull had with him an old trick horse he had trained while with Bullafo Bill's "Wild West" show.

When the shooting started, this trick horse, mindful of his old circus role, out down in the midst of the molec and held out his front foot

to shake hyens!

The Chicago Inter Ocean, on August 27, 1874, carried a five-column front-page story from its correspondent, William E. Curus, who was with Custer's exploring expedition in the Black Holes when Horatio Ross prode his gold strike (page 555).

He wrote that officers, privates, bullwheekers, and scientists all met on a common level, as Cluster's force fell to with shovels, tent plus.

I may have soul to expense the light was a

for gold,

But Coster himself, though he didn't minimize the gold strake, had more to say about Indians. Today they re still a problem, even though scalping yields to fate massage and permanent waves and Lucks may wear hero-timaged glasses and smoke Owl clears.

Some 30,745 Stoux are now "enrolled," and live on nine reservations; bleggest are the Proc Ridge, Cheyenne River, and Rosebad, covering same 7,170 square rades. "But since you whites quit killing us and commenced whistling at our squaws," said an educated half-breed, "a's hard to say just who is an Indian."

Buitg initiated into a fun-lowing Rapkit City society, the "Singing Tribe of Wahoo," where I was christened "Big Pencil," I met Wasicun Tan-in-yan-Najin (White-Man-Stands-in Sight), a stern-faced old Sioux chief starbed in all his feathers. Just when I was wishing for an interpreter, he grinted and said. "Twe taken the National Geographic for years,"

All Indians, except a few older enes, now speak English, and many take the newspapers and write to Congressmen to get jobs for their daughters waiting on table in State park cases. Some do fairly well running a cow ranch, but

they don't like to malk!

When Red Cloud led a band of Indian dancers in a performance at Dearlwood's Gem Theater years ago, an aston-shed audience was seeing the end of an epoch. The war dance had changed from a prologue to massacre and enalping of whates to a showman's act by red men to pick up cash at county fairs and wild-West shows,

Sioux clances are still top line at many a recteo. Tenderfeet shudder in rectary at savage war whoops and tom-tom beats. Indians on by the wild-West shows (ou, especially when free meat is passed out of when they can may a firewater shot from a cowboy. (It is unlawful to sell whisky to Indians.)

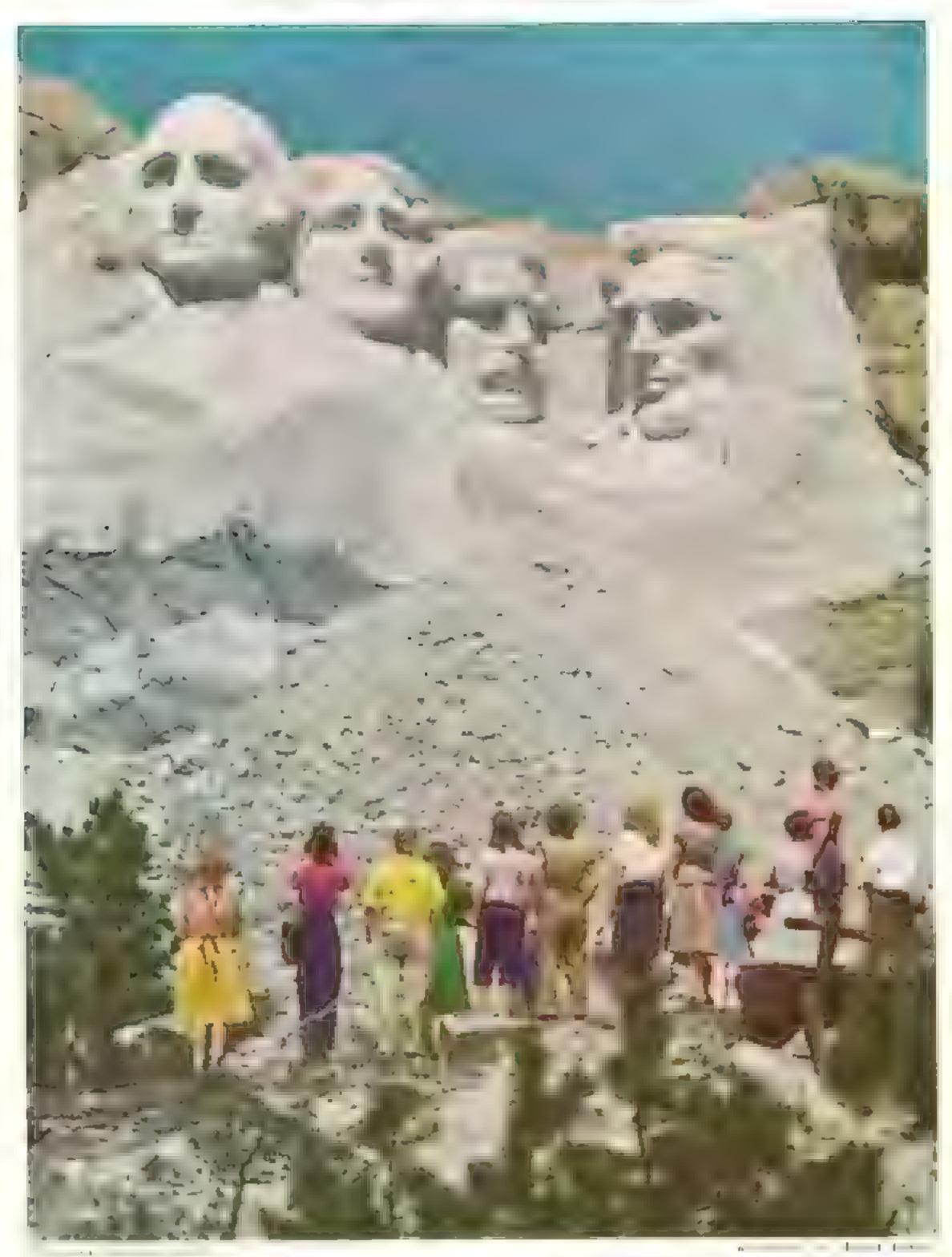
Tull Tules of Pioneer Days

After an Indian dence in Custer State Purk a surplus buildle was shot for the Indians. Our cameraman, Jee Roberts, played the role of Buffalo B.H. As it fell, old Chief Forks Crow can in and tool a knot in the big bulls tan (Plate VIII).

"Why that bury four-in-hand?" I asked.

"To show it's our ment," he said.

Old Indanes still repeat tribal tales about Custer, Crook, Miles, Harney, all whites who fought this way. Harney Peak was named for Gen. William S. Harney, When he was



Stern Faces of Washington, Jefferson, Theodore Roosevelt, and Lincoln. Gaze from Monat Rushmore in the Basek Hills

thereford l'expet temous Submis wor d'he neugens. A man ent le stabil envit in Lincoln's eye. From the con-



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Over Plains and Hills of St. Dkd



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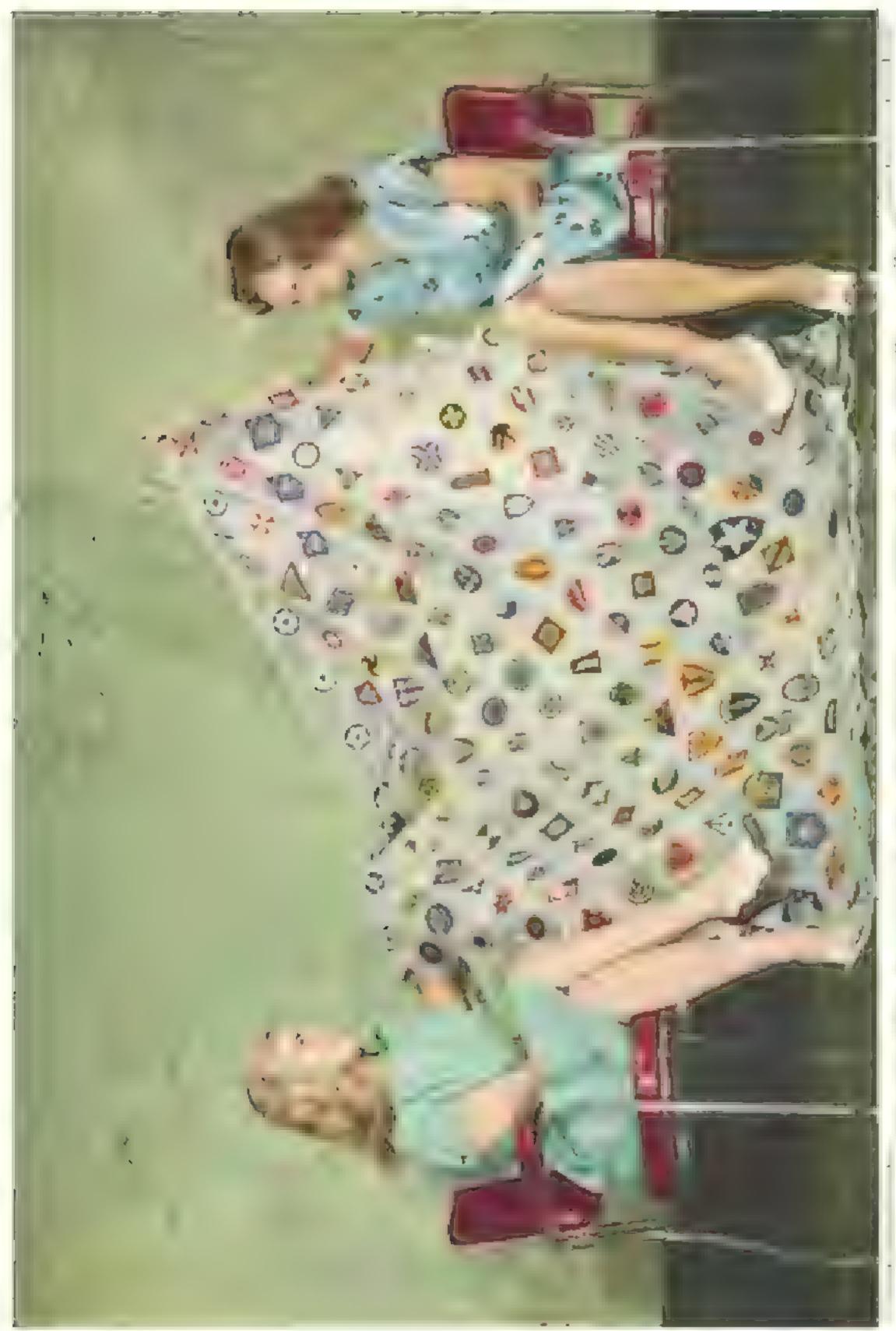


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There he Stratewolers Billian Assembled to Greatest Height fiver Reached by Man

campaigning here as a young lientenant, he im to but the two selections and then restore him to be.

"Here, surgeon," he said to an Army coctor.
"Chloroform that dog, then revive it give

'em something to talk about."

The dog passed out quiety emugh-and

staved out. He died!

That was a joke on Harney the Indians could enjoy. They yelled with glee, "Whate

man's medicine heap strong!

I meer Army posts are scattered through this country, as at Forts Lookout, Pierre, and Meade. Here temps were kept to guard settlers against Indians.

Now Indians Fight on Our Side

Now these Incians light on our side. Crowds of them have served, first as scouts and Indian police, and then in the World Wars, where they fought and died beside their other American brothers-in-arms.

Gold comps and cow ranches, bosoning in the Black Hills country after 1874, were propled largely by native Americans, adventurers

from mary States.

"Not so eastern South Daketa, It lured farm-minded folk not only from other States but from Europe," said U.S. Senator Harlan J. Rushfield, a member of the National Geographic Society since 1970. "I myself was both in Jown, and brought to South Dakota when I was two years Id."

Renired here, and serving as Governor befive he was sent to represent his State in Washington, Senator Bushfield is a good example of

a South Dakota adopted son.

He has had much to do with the State's highway expansion and has backed the haddter that it is he pass I in Rand I not Cahe Dama in the Missouri River. Work in

the former has just starten

"In early days," he continued, "bog land-selling companies used colonising agents to bring in settlers by thousands, especially from lowa. Wisconsin, and Minnesota." It was then that new towns outshoomed on the prairies. Aberthen, now a hig, busy city, was a hand-boom town; so was Ipswith. Two weeks after it was started, it had two banks and three tax a pet:

One ploneer bank was merely a board laid on two barrels. On a the 'banker' spread out his money. When he had to go to lunch, he put has deposits in a satchef and carried it in one hand and his six-gon in the other!

Sed was used then to build homes. Times were hard. Men worked from sun to sun for \$10 a month. Farmers' wives sold eggs for

5 cents a dozen. Ipswich folk gatacred old auffals bones to get cush.

Mamilia Garland lived on a homestead near Aberdeen. His vivid portrayal of prairie life shows up in his Main Traveled Roads and A Daughter of the Meddle Border, the latter a 1922 Palitzer Prize winner.

Life wasn't without brighter moments. At Aberdeen young L. Frank Baum edited the Saturday Phonest. Later he wan fame with his

Wanderful Wisord of Us.

Racker Frank B. Gannon was an Aberdeen plonter qukk in reporter. At a ferryboat one day a man asked han for 25 cents to pay his way peross the Missoure.

"How old are you?" asked Gamon.

"Thorty-five," was the answer

"Well, if you haven't saved 25 cents in 35 years, it makes no difference which side of the

river you're on ["

Autumn gamire festoons these Dakota skies with fleating feathers as a me 98,000 out of State hunters and every pative who can find a fowling piece join in bagging ring-necked phensants. Then the State's take from because and sale of shells, food, quarters, and transportation may teach \$10,000,000.

No such mass bird bunding occurs anywhere else. In 1945 the bag was more than 7,500,-

ODD phrasints!

Rodeos Recapture Dwys of Old

In a stage version of Cwa Valis, I saw a gladiator twist a bull's neck till it cracked.

"Hulldogging" in wild-West shows is like that Cowboys called "Lulldoggers" leap from rar alag horse to galloping bull, seeze him by the horas, drap beside him, and seek to throw him and tlip him over, leet up, by twisting his neck. This may be as dangerous as riding that man-killing humphacked Brahman bull of Texas (page 575).

South Dakoth is a busy spot on that rodeo circuit of cow towns which streathes from Amzona to Oregon. Out here are few broadway productions, no big league baseful or well-known twee tracks; wild-West shows take their

place.

"I don't want any rowboy to get gored to death or have his riks crucked by a branco; but if that's going to happen anyway, I better he cut there!" That's how rodeo fans reason. Somehody gets hurt at every performance. At a Belie Fourthe roden I saw them call the ambulance three times.

Comedy retires the strain. There's a clown with a trick unde whose tail pulls off, to the

delight of small boys.

One clown I saw stands in a rubber barrel, his head and shoulders above its rate, and from



He Put This Calf in a Sack to keep It Quiet-on an Airplane Rade

In a upon the common and him instruction of the compact print of the compact print of the compact of the common of

there tains the insufficed bill with a red flag. When the animal charges the clown trops down into his barrel, whom the bull hits with victous force. After he's kind to a small often kind on the larger to larger, the bull often kind on the larger and he had been at the contract of the areas, the contract of the larger than the large

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The Horse Spill Evaluation

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Big Game Hunting in the Land of Long Ago

BY JUSTICH P. CONNOLLY AND JAMES D. BUMP

President, and Parester of the Museum, respectively, South Dahota School of Mines and Technology

at take mer fully equipped for three months in the field, but having orders not to kill anything and net to "bring 'em back alore'?

Such an expedition, under the joint spotetorship of the National Geographic Society and the South Dakota School of Mines and Technology, left Rapid City on a morning in early June in search of museum specimens of thinoceres, where-parthed tiger, giant pig, the antelopelike Protoceras, tapar, horse, and any other game that might be encountered.

But this game had lived, died, and been buried some thirty millions of years ago. The hunting ground was the Badlands of South Dakota, and the quarry was the lossed bones

entombed in the rocks of that area.

When this region southeast of the Black Hills was subtropical, wet, and covered with jungle growth, small, mouselike raden's and tiny lizards lived here as neighbors to hape hardest thinocenses.

Three toed horses, small camels without humps, tiny deer, giant swine, and many other forms grazed side by side, ever on the alert for such deadly foes as preduced dogs and sales-toothed tigers.

Region Deserves Better Name

It was the American Indian, earliest business inhalitant of South Dakota, who first applied the name "Badlands" to this area, as he found it relatively dry and deeply eroded. He called it "Makosica" (mako, land; sica, land).

The early French Canadian trapper awided the region when he could because it the difficulties of travel. He could not improve to the Indian pance and referred to the area as "Mauvaises Terres." Likewise, the western pioneer could see little value in land so mughly hattle scarred by Nature; with a lactal translation be adopted the early name, and it is so known today.

In some respects the name is unfortunate, as it has given rise to many misourcept, ma-

Ope even ug in camp the senior author read to the mara sers of the expedition a description of the Badkand's that had recently appeared in a Sanday newspaper: "The visitor's faucy is taken even further back into the past by the twisted, togetered, barren Badkands. They are a no man's land of unimaginable desolution, where not even a sheep could find a levelihood."

Gring of decision spread through the group. And one man muttered, "Assurbais travel water"

As we glanced over the floor of the valley where we were comped, we say spread out before us a brilliant carpet, tailden-yellow cactus the soons, the white of the evening primose and the mariposa lify, and the bright plashes of the scarlet mallow, all were set in a background of abundant rich grass. Not for from camp grazed berds of slock, well fed by rses and cattle, and that day we had seen two bace flooks of slocqu.

"Table-tops" and Valleys Fertile

It is true that the severely enaled slopes of a loss of the 2 of an is are borrow in the apparel tables and the larger valley floors are level and fertile.

Much of this area is covered with wild grasses, which afford good grazing for stock. The animals' drinking water is obtained from the rivers, from the numerous springs near the tops of the tablelands, from shallow wells, or from pands formed by small rain-conserving laws.

The usands of acres are planted each year to wheat, ours, they, com, and other crops, and have yielded abundantly in spite of the sentiatid conditions.

Gradually people are losing their timidity regarding the country, and each year thousands of travelers plan their trips so that they may see something of its weird beauty.

How did these Badlands originate? Why the profession of grotesque, rough topography? Why did so many prehistoric animals find a grave here? How were these entombed bones so perfectly preserved that now we may unsurth them and doublet the fascinating history of the geologic past?

The story would be much too long for these pages if we starte I with the time when life first existed on this planet, more than a billion years ago. Let us turn to one of the later chapters in the geologic history of the earth, the Oligorene epoch of the Tertlary period.

As time is measured by the geologist, this chapter begins "recently," thirty to forty multices of years agot. The general outline of the continent had then reached about its present form, and life had passed through more than 90 percent of its evalutionary stages.

The midwestern United States had just been freed from a great inland sea. Several hun-



"Be Give Hurters" Was Pried Their Opens from the Ricks of South Daints.

A property of the second the second technology repetition of the second technology repetition of the second technology repetition of the second technology profered to the secon

dred feet of mud had settled to the hottom of this sea, and, hardened into black shale, now formed the foundation of the new land. The Rocky Mountains and the Rinck Hillshad just been folded or pushed up from below. The Alpa and the Hanalavas were not yet in existence.

Hamirels of streams drained the rewly formed Roal as and black Hi la, their waters numbly with fine silt. As they rushed down their mountain garges and spilled out upon the plains to the enst, the waters suddenly shared down. They dropped their burden of sediment, which was built up into a great apronuced, which was built up into a great apronuced the sediment, which was built up into a great apronuced the latest Hills (map, page 592),

The plains country became an area of blood, meandering executes with braided channed of shallow lakes and marshes, with each of the land was this edited the land was this edited, This increased the velocity of the streams, and they cut narrow, tertacus channels in the mod. As they shared down again, they filled these channels with sand later to be transformed into wanding threads of sandstone interligibled with the clays

the of a reserved not of volcances to the of a reserved here by the winds and leposited with the water-faid seduments. All of these processes resulted in the formation is South Dakota of a series of neds or layers of fresh-water seduments piled in top of each other and reaching in places a thickness of about 600 feet.

Pressils Gave Numes to Rock Beds

This series of beds is known as the White River formation in the principal stream that drains the area. The formation's lower third is uprises the Transithere beds, the man le third the Oreodon beds, and the upper part the Leptauchenia beds. The names have be n chosen from the animals of long again have remains are found most abundantly in each division.

The expedition planned to carry on most of its work in the Leptan henia beds. Close to their base, but found in quantity in only two places in the hadlands, are weird looking masses of grayush green sandstone. They are the temains, after crossion, of the channel-deposited sands, now handened into sandstone



J. 20 Lane

The Padiands Vield a Rhinoceros Skull and Jawa 28 Inches Long

With a gestane's throw of the expedition camp, but have a real control of the expedition camp. largest of log species so lat generateral in the White School or the Third Color of the Color of with profument typine teeth, were completely joined. A to deal and the sound be the transfer of the sound typine to the sound typine typine to the sound typine to the sound typine to the sound typine ready for a printective covering of burnspan

The true own of the most claratemeter to • • 1 ' < c channel sandstimes is the l' - • -</p> and the have been named the Protoceras Charmels, or Protoceras Sandstone, Their maximum thickness is about 40 feet, and - Idoni is there it single exposure for more than 300 feet horizontally

Hordes of Strange Animals Attracted

During this epoch the climate was subtropical, and an abundant minfall brought about a hauseant vegetation. Various creatures moved in to take advantage of the fore, supply, and there developed a herele or animal hie. Flesh eaters preyed on the ent we of plants and on one enuber

to death came, either through natural causes of from the struggle with looth and . A most of the remains were probably is a very completely by disintegration and wenthering. But some of the bunes, and now and then the entire skeletons, became I uried in the accumulating sands and made and were thus preserved. By the hine, slowprocess of mane of the court in the cohave since been jurily , a rise of the firm remains of the life of one ago that have

attracted scientists to the Budlands for nearly a centiles.

Toward the close of the Terriary period probably 15 to 17 million years are—the -- rt a was troubled again with a deep intered gare to The Rocky Meantains and Black Hills were rused to greater heights and the b welving by an is termations were elevated to a platea (... The once-shagish streams were , exerted and began to scott their channels. - per. Many new tributar es developed, and quickly (in a seclosic sense) the uplant plan teau was dissected and carved by the streams . A He will give and a fill the Estroph crision brus we et age todat Vegette the warm, burght climate the distriction became semigroed genet ter Acars forms of the negative extinct and extrationary changes were quickened in

This climatic change was one of the three factors that produced rapid and steep sculpturing of the hand and the development of nor form in a cross to the constitution The furthers were: a . bm. to act a low could. more or less concent a said for the said of the a genrality, therefore, early and recolubility



Storehouse of Prehistorie Focula—South Dakotus Badlunds

In this deeply exceled area wouthnest of the Black of the R. A. Nestman Languagine Society-South Daketh School of Manes and Technology expedition accurrhed to use of animals which freel of malies years are. Nearly 200 antalogued specimens were collected.

which would protect the soil and rocks from eroson; and a spits of nonresistant, fine-guited sediments sping at a considerable height above the main desirate channels.

Occasional then, hard layers, such as the Protoceras Channel sandstones, alternating with the soft beds, bring about differences in erosion and give rise to the queer "hondoo" shapes characteristic of many badlands to to:

to restring mysterious or violent about to the first of the Badlands. The ordinary, everyday, familiar action of wind, rain, and sun, with the added element of sufficient time. has brought about the result we see today.

After several weeks of careful planning and oreparation, our expedition set out for the liadlands. The caravan was made up of three tracks, each piled high with campine and reflecting equipment (pages 590, 597).

After passing through the town of Scener, we soon left the bighway and entered the Pine Ridge Indian Reservation. Special per mession to work he this region had been obtained from the Oglala Sieux tribal council and the Department of the Interior.

Winding trails led us to the White River. We found it at flood, the white, muddy waters that give at its name running full from bank to bank. Would we be mired down in the center of the stream? Two two volunteered to back out. They waded in cautiously and

finally waved us on to a successful crossing

On the south side of the receive "ran out of road," but negotiated some miles of rough going wi hout serious mishap. We were brotheld to a step at the head of a pulch housed in on these sides by bankura walls; from these projected fagued sandstone ledges, the Protoceras Sandstone which contained our hopes for the summer. This was our destination, and it was to be our home for the next three months.

The camp rapidly took form. The cook tent and the combination mass study recreation tent, with connecting fly, were erected close together (pure \$90). A short distance away we set up a large army squad tent and a smaller headquarters tent. A dugout was excuvited in a vertical bank close to the cook tent. In this were placed the kerosep-fired refrigerator and the peristoble surplies.

Near the center of the camp we erected a large le and hoisted a Nathonal Geographic Socie y flag. Such flags of blue (for the sky), brown (the earth), and green (the sea) have lown in expedition camps from the North to the South Poles and in many other far-flung steas during the last built century.

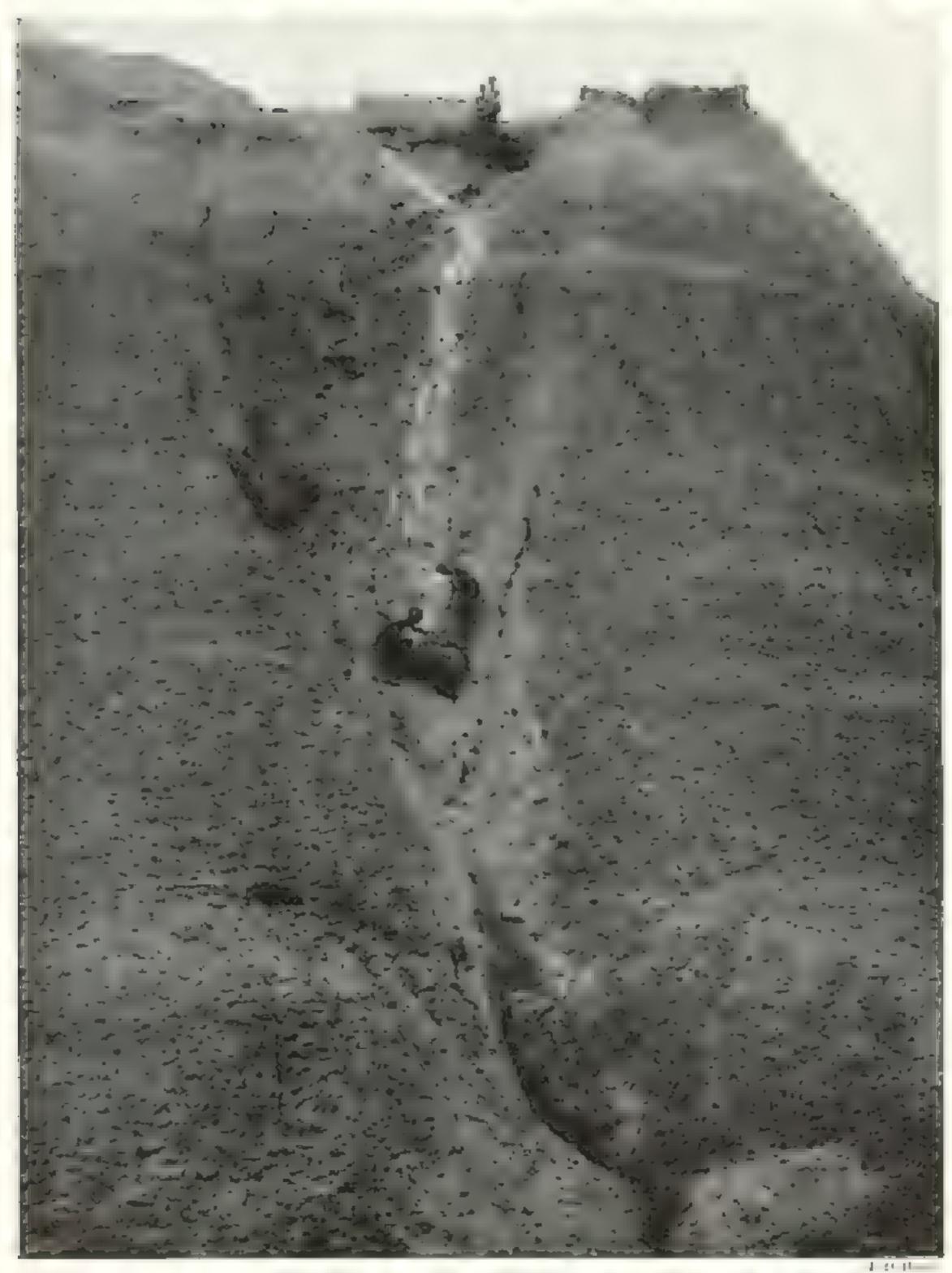
We were fortimate in ultaining plenty of pure water by sinking a pointed pipe close to the bank of the White River. This meant a half of nearly five miles to camp.

Sun Heated Water for Baths

Our shower bath was improvised from a 50-gallon from thrum set up on a convenient block of sandstone about seven feet high. The water allower for the shower was the unased portion of the forty gallons transported to camp each day. The sun dad the beating, and many were the days when we wished it were not so efficient

No formation in the Badlands is so difficult to prospect and collect from as the channel sandstones. We knew we were taking the hard way. Months before, after careful consideration, we had decided to concentrate on the channels in spite of the difficulties they offered

We were aware that fassils were less go medical in this exposed hard rock than in the surrounding soft clays. We suspected that the finding of a complete skeleton of even of skull and laws joined t gether would be a rare event. As the channel sandstone had been deposited by swift waters, the hones of any animal would probably be separated and scattered before they were completely covered they might have been worn by the sand, broken, or crus set before Nature's harid



Down a Steep Chit States the Carefully Wrapped Shall of a Givet Pig.

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Before the Dawn of History, Protoceras Rounted the South Dakota Uplands per training and the per West President and the period of the set of

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tion, and are and of by many because of their remediate the highways. Anything we foreign this strate and there Was an intelled through thing is a gift

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We are tell that, if it postationells. More THE PERSON AS A SEASON SPEKER SIMIL TO JUST faller and a command beauty tion of the a period prospect of the part Do be nothing more than a - all figure. Unkartumately, this but up the such article ore a united hours have a resorbed a street in

proprietable and the second second

There are many evenings a martine transhunter" trudges into camp when he is show for his day's labor but a hundful of pagettil blisters. But the memory of such dive is some crased when fortune smiles and a worth-while specimen is found. On these have we know by the grir on the hunter's s nelsking for all the mornings of he W T I I De La gar Francis La Francis

the arrangement to the second of the

tripe there is be all a liber of rock to the transport of the second transportation to camp and later to the nusuum. Furthermore, working the specimen out of the rocky matrix is a delicate operation and can best be performed in the laboratory.

One prize of the first month a work consisted of the skeletal parts of some large bit is. This material has been studied by Dr. Alexander Wetmere, Secretary of the Smithsonian institution and member of the Beard of Trustees of the National Geographic Society. He described from it a new penus and species. Gustarnia grambilus, and a new species. Buthornia geographicus, the latter named for the National Geographic Society.

Bird hones are rare in all fossit bods, and this is especially true in the White River Radiands. Such boxes are thin-walled and length, usually small. It is believed, also, that birds tracely met their death in places and under conditions favorable for burial and preserva-

tion of their skeletons.

Fossil Egg Found in Sundstone "Nest"

Before the summer was over, we had or letted the fossil bones of five other birds

One day, shortly after the finding of the first bird spectmen, one of the assistants crawled into a buge sandstene trevice for a few minutes' relief from the sun and saw there a lossel bird egg embedded in the rock (page 600). For igue was forgotten as he set about collecting the egg in its sandstone nest. This is pre-hably the first egg that has been found in sandstone of this age. It is larger than those found in the lower clays. Its identity has not yet been established.

A buse thin scenes skull with the I wer jaws faired to it was found high on a stand divide only two hundred yards from camp (page 50%). It was chiefed out in a black of saudstone that weighed about 500 pounds, a busden that gave us no small problem when we came to lower it down the vertical wall. This spectness of chinoceros, Authbiogenopus platacephanes, is particularly complete and will add much information to that obtained from the fragmentary material from which the genus

was criginally epsetibled.

Then there were specimens of poul tratles, the arms tiples, have a considered the early three-food stage, large pigs, Protoceras, Ancodomis, and many others. Protocerawas a slenderly built animal, much like an antelope. The female was without horse, but he male skull shows three pales of bony protuberances that supported borns during life. Fossilized remains of Protoceras are rare, and are seldom found complete and uncrushed (pages 504, 594).

The Ancodonis are another group of extinct

animals, somewhat larger than Protocerus, whose relationship with other mammals is as yet uncertain. Their fossils are known to occur only in the channel sandstones in the White River region. Complete remains, even joined skutts and jaws, are found rarely.

The work was ardious and reacting, but there was no complaint. It was all too interesting for that. And there were times for recreation and relaxation, just outside of camp was a good-sized allowal fair, a good, sloping area built of hard-packed fine sand. It made un ideal court for softball, and early in the summer we had a game every might after dinner (page 50%).

Later in the summer horseshoe pitching replaced baseball, and a tournament was

pkyrd.

After dark everyone assembled in the mess tent for various activities, such as writing up the day's notes, keeping diaries, or "study ne slop"—texts on vertebrate paleontology. When Prof. Arthur C. McIntash, an authority on entomology, was in camp, many interesting evenings were spent authors, with the group sitting around a gasoline lastern and identifying insects attracted by the light,

The battery-operated radio receiver was a convenience. It brought news, time signors, and entertainment. There was the added confort that if at any time an emergency developed, a message could be sent to us from the School of Mines Station WCAT. We had a prearranged schedule for l'stening

Summer Sun Kills Snakes in Open

When we first went into the field, some of the men were concerned about tattle-nokes. We killed five during the summer, three of them in or close to camp. We were prepared with the usual sanke-bite remedies and used sensible precautions in wasking across areas covered with vegetation

But we did not worry about snakes on a fessil location. These reptiles do not live out in the sum on the barren took expresses where the collecting was done. The high temperatures, caused by a cambination of the direct heat of the sun and radiation from the rocks, are too much for them. We had demonstrated this more than once on previous expeditions. A snake, hipped out of its shady retreat under a rock or curtus plant and left in the full glace of the sun, succurated in less than twenty points.

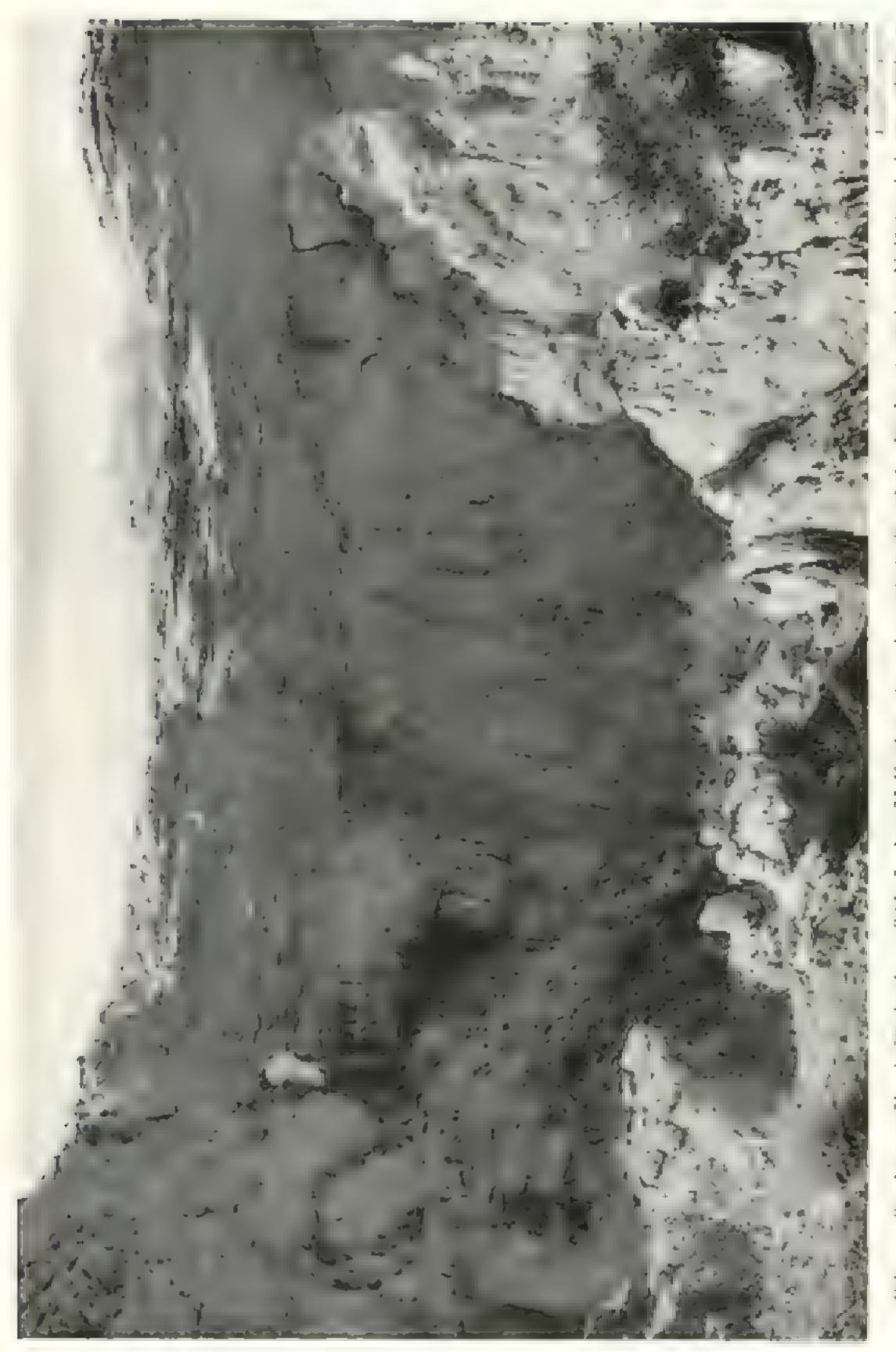
As July arrived, so did the heat. Many days sent the mercury well above the 100-degree mark on our maximum-minimum thermometer, which was kept in the shade under the north side of a hig rock. Actual tests



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The history of the transfer of the White March



the Haff of on Anondom Shaff Tropled with It; the Other Half Smak in the When a Sundance Clark broke from





Nature Preserved This Iran in a Sandstone Nest

On alternoon an expedit it we had classed to be a fired hard rate but South Itako . In There he was amazed to be a fired hard rate but long in racia (part 505). The shall was not by comment. The photo-order to the sandstane matrix of the conditions.

showed that out in the sun the temperature we often thirty degrees higher. Yet after a menth out of doors evercone was in fine physical condition. The evening never falled to bring relief and a comfortable sleep; during the nights the temperature fell to about 66

Lury for primer continued to pour in.

A Protocoms skelet m with the lens speciently joined and preserved was found embedded on the under side of a 30-inch overhanging ledge of sandstone.

Unfortunately, the rear third of the skeleton had been weathered away, but the connected and jaws were in excellent condition.

It was thus readily identified as a female (page \$99),

The collection of the specimen was a challenging problem. The ledge bung out over a sheer walk, at the base of which were two lair. eresion sinks into which the apecimen threatened to plunce. We land to leave an unusual v large amount of matrix as in the ske cton, and the block of samest ne was heavy but we sucreeded in handing it with the nid of bluck and tacki

Among other interesting descoveries were a skull of a small, very rare insert enting municul; a good pig skull with jaws, probably of the same species as one found in June; another skull as yet unidentified; and specimens of a rar ranged tigers, and thin rerections.

At one time near the end of July there were 13 specimens reads smaltaneously for the final stages of collecting

The bones had been uncavered as much as was desirable, and then by careful work a trench had been exca-

vated around each specimen to leave it iso ated on a small pedestul. The fossible i purtion and much of the matrix had been hardened by repeated applications of than shelfac. Then a layer of rice paper had been glosd on with thicker shelfac

After several days of this sort of preparation, specimens are ready for plustering. Underly tissue paper is applied wet to all of the exposed bone to prevent the pluster from sticking to it. Street of lands was not applied to six in his with use all a leafur that over and around the specimen. The issues are used to push the barlap therotethy are are used to push the barlap therotethy are

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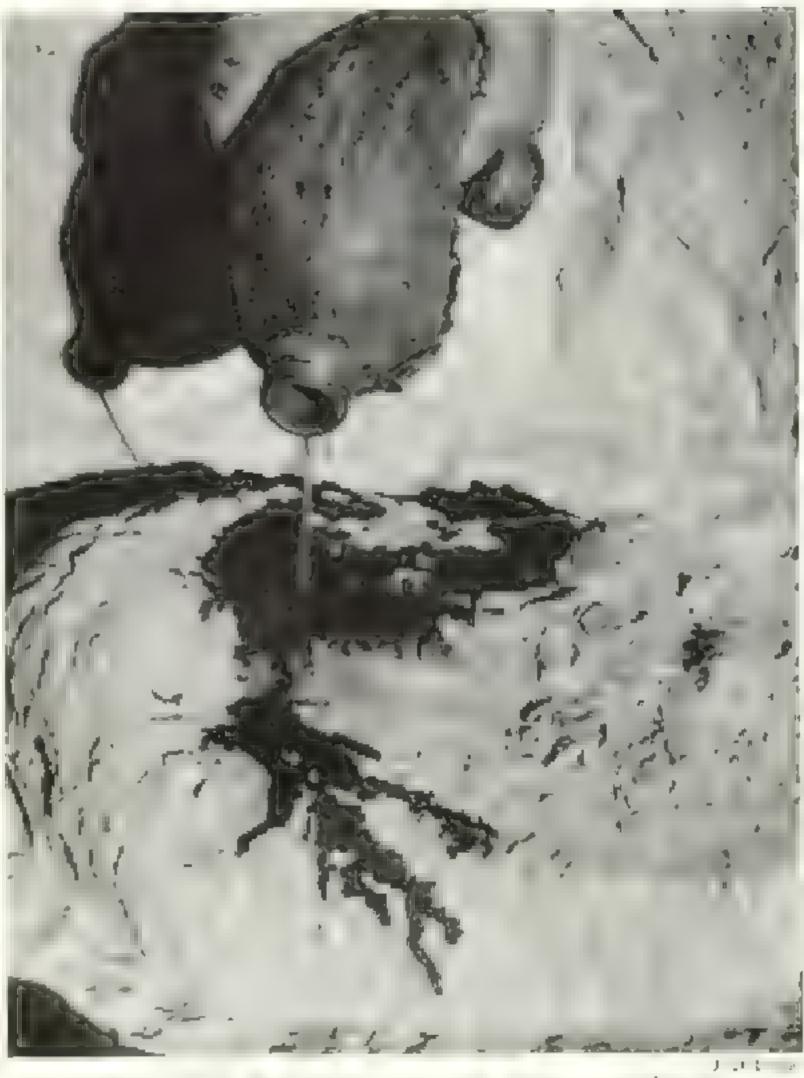
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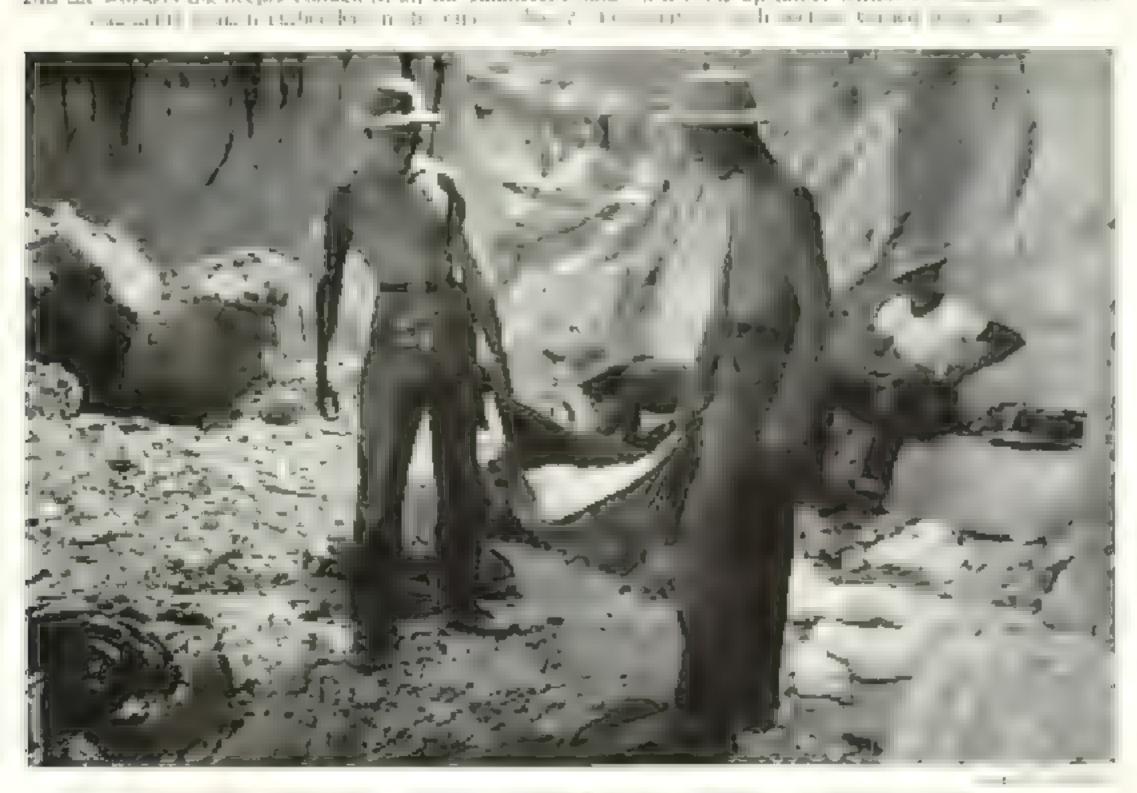


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Anxious Moment! Will the Bone-laden Blacks Break Off Cleanly?
Induke workers the deeply contact so all the calmorros bones will some up much within the calmorros. Of each



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Nautical Norfolk Turns to Azaleas

By WILLIAM II. NO. II. I VS

N IDEA, the depression of the thirties, and more years of hand work have transformed a 40-acre stretch of targeted undergrowth putside Norfolk, Virginia, into an acatea fairyland.

Last year, between March 17 and April 22, the height of the season, 75,000 axaleas burst into theom in this youthful addition to the Nation's floral show places. In a wooded setting of was myrtle, sweet bay, dogwood, holly, typress, and tall lobially pines, the dazzling

display thrilled 67,500 visitors.

The man who had the idea was Frederic Heutte, Norfolk's French-born Superintendent of Parks and Forestry (Plate IV). In 1937 he visited the scales gardens of Charleston, South Carolina. A horticulturist slace he was 14, Fleutte was so impressed with Charleston's magnificent acades showing that he wanted Norfolk to have acades gardens, too

Climate Favorable to Azaleas

He felt sure his city's geographical location was favorable. Almost surmanded by water, its temperature is more even than that of most eastern cities. Seldon has the thermometre dropped lower than 20° F. above zero.

Heutte believed that not only could coldhordy varieties be raised here, but also delicate southern species which could not survive at other places so far north. Therefore, he reasoned, Norfolk acalest enodens would have a longer blooming season than pardons farther south, because they could have many varieties of both early- and late-blooming types.

Norfolk's ship-minded city fathers gave the project enthusiastic approval and backing. For a location they chose a tract in Norfolk's watershed properties about six miles from the city limits. It comprises about 75 acres of high, wooded ground, and an equal acreage submerged by an arm of Limb Creek Reservoir.

Here moisture from the lakes and the presence of many tall trees afford additional pro-

testion in winter,

In 1938 several hundred Negro women, unable to find work, were on Norfolk's relief rolls. To give them employment, the city formulated a WPA project for the avalea park, with 90 percent of the work to be performed by women. With a trial fund of \$50,000 the job was begun.

By the end of 1938 a section of underbrush had been cleared and 4,000 plants, of 12 varieties, purchased by WPA, had been set out. Fromgation from these was begun insmediately. Another \$100,000 WPA grant was

made available later. The employees took pride in their work and some are still there.

Today 40 acres have Lern cleared, with 25 devoted to nauleas. On them are 75,000 blooming plants and many thousands of cuttings.

Visitors may wander over six miles of trails—a main path a mile in length from start to teturo, and five radiating walks

Other Flowers Bloom in Profesion

in addition to axideas, more than 5.000 thod electrons, it vast quantities of camelias, I quarter that it is a little and therefore it is a little been planted. An ultimate objective, in addition to improving and increasing the axidea display, is to build up impressive showings of other varieties of blooms in other marks of the year

Growing of Indian axalens justified Mr. Heutte in his belief that delicate species would thrive outdoors the year round in Norfolk, Most Indian agains require greenhouse cuiti-

vation in cold weather,

The Formosa clone (R. phoeniccom) shows in Parte I is more than 12 years old, and was one of the ur ginals in the garden. It is five feet tall and about the same breadth. The Formosa (not named after the island) usually reaches a height of eight feet, but this one may exceed that size, for in the last few years its growth has been about a foot a year.

The blooming Hunderdri nzaleas (R. obterms Hunderici) shown in Plate II belong to the Kurumes, a race introduced to cultivation in the eastern United States by the larlit E. II, Wilson, the famous plant hunter of Harvard University's Arneld Arboretum

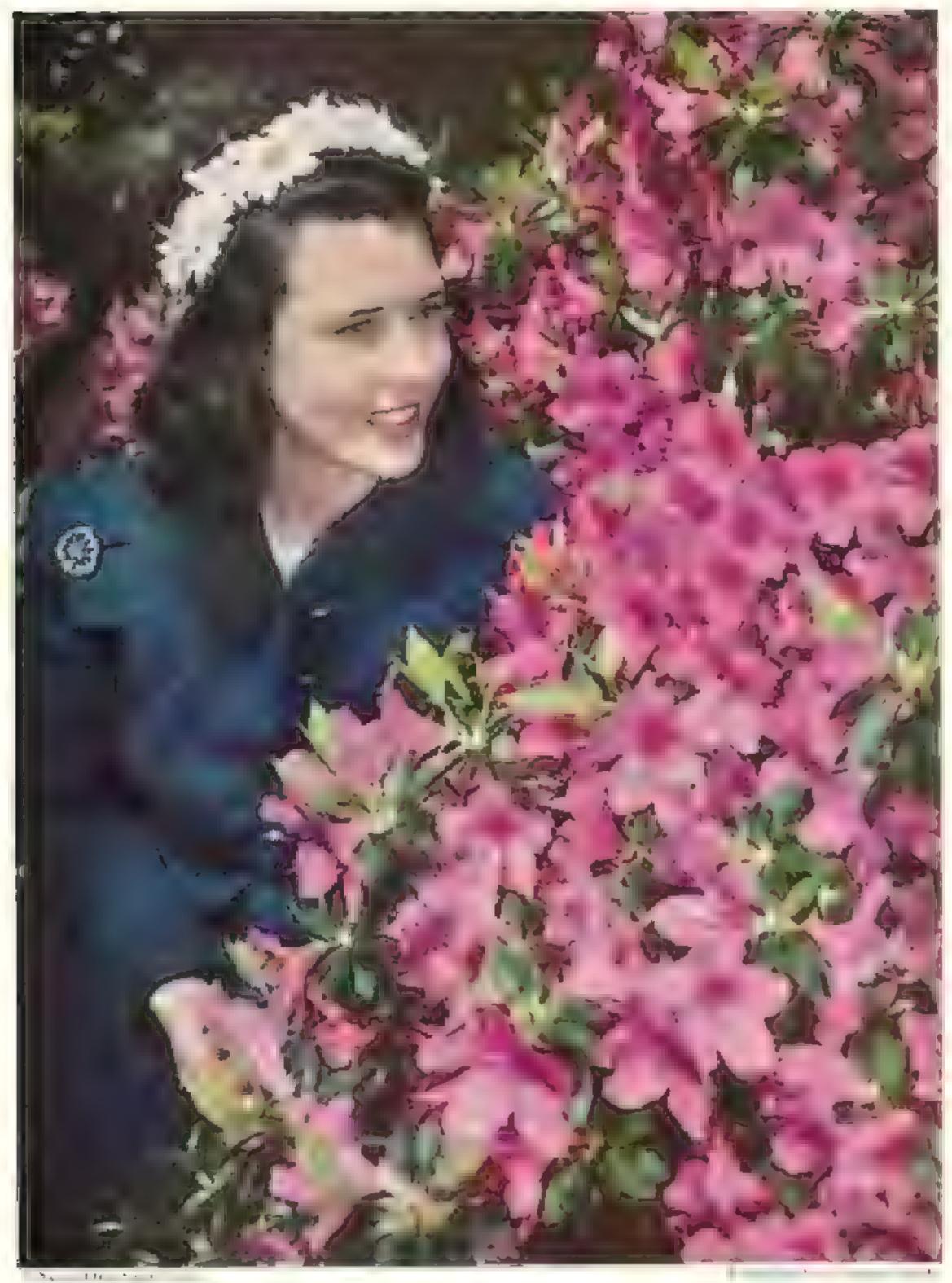
In 1914, when Dr. Wilson was in Japan, he visited a nursery district near Tokyn where for the first time he saw these plants in dwarf forms, braring flowers of many colors. Some of them were brought to the United States three years later at his direction

Across the water from the Hinodegirl in Plate VIII stands a lord of R. generalization plants cold-bardy hybrids developed in the Arrold Arboretum and by near-by Massa-

christis agalea enthusiasts.

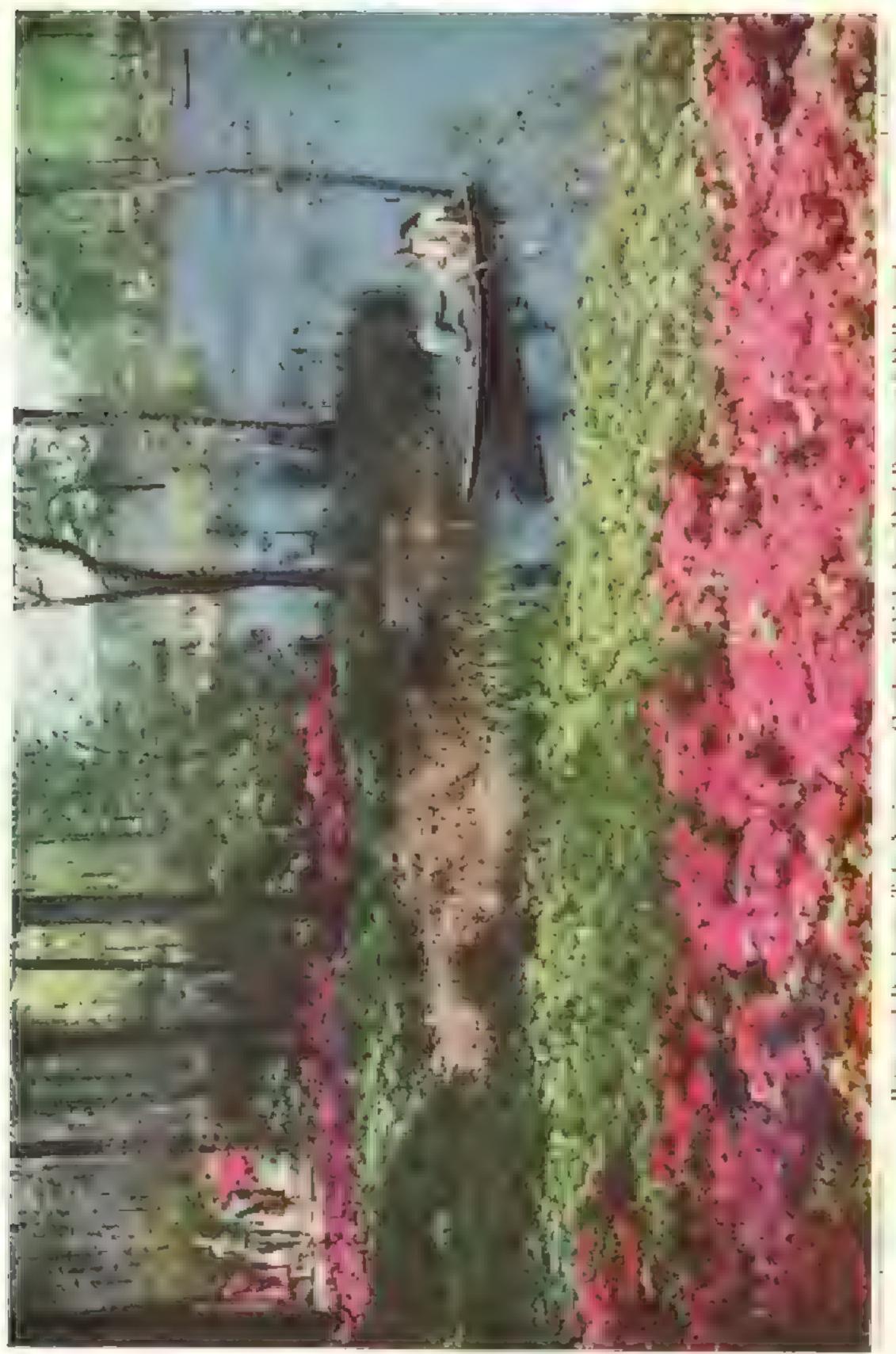
* See "Charleston, a Column Rhapende," by B. Anthony Stewart, Narrowan Guardanter? Macagine March, 1980

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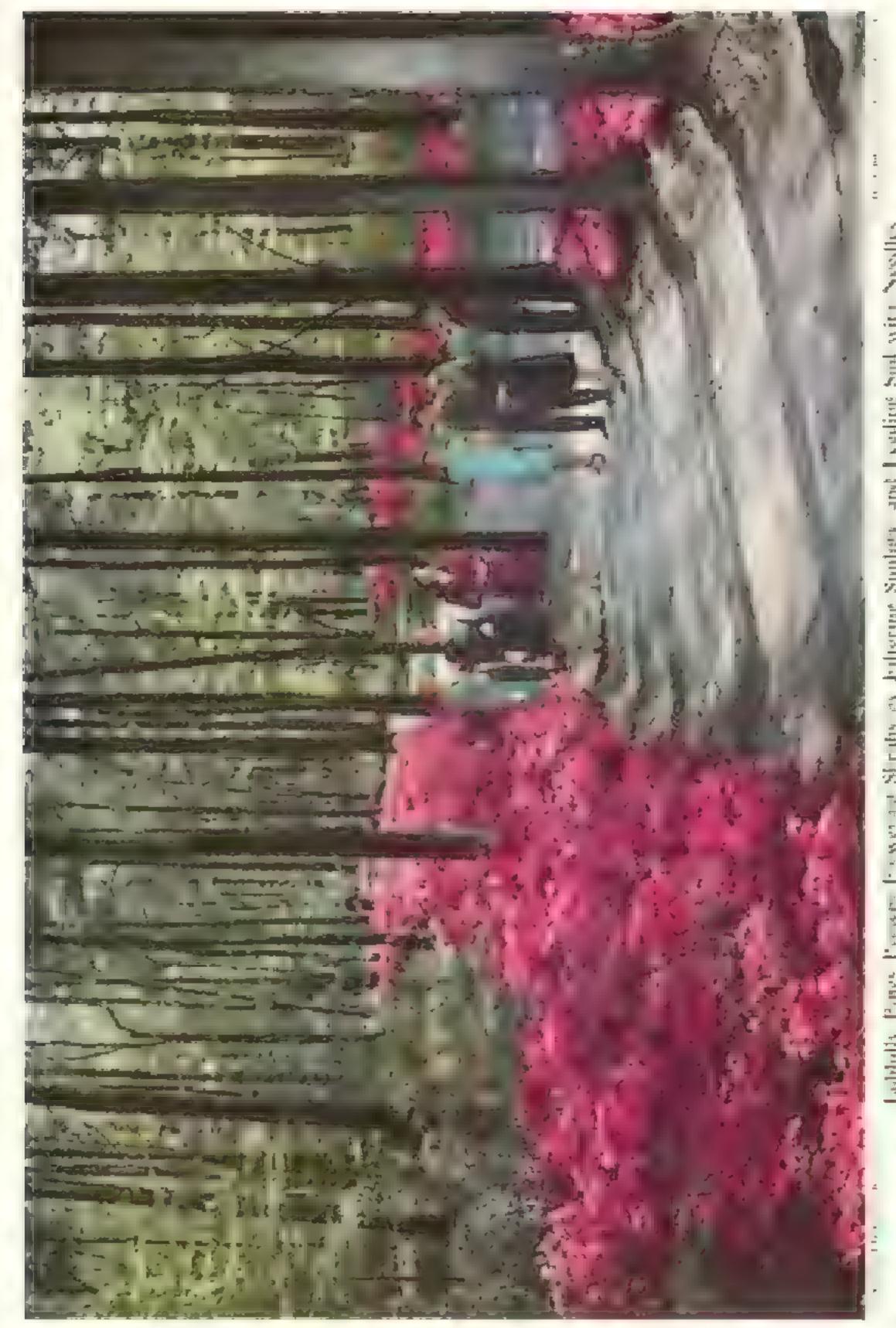


Bright Banks of Indian Azalem Opslane in Minney's Dass Crown

The Later was a first part of a mark with the best plants and the Court of the Cour



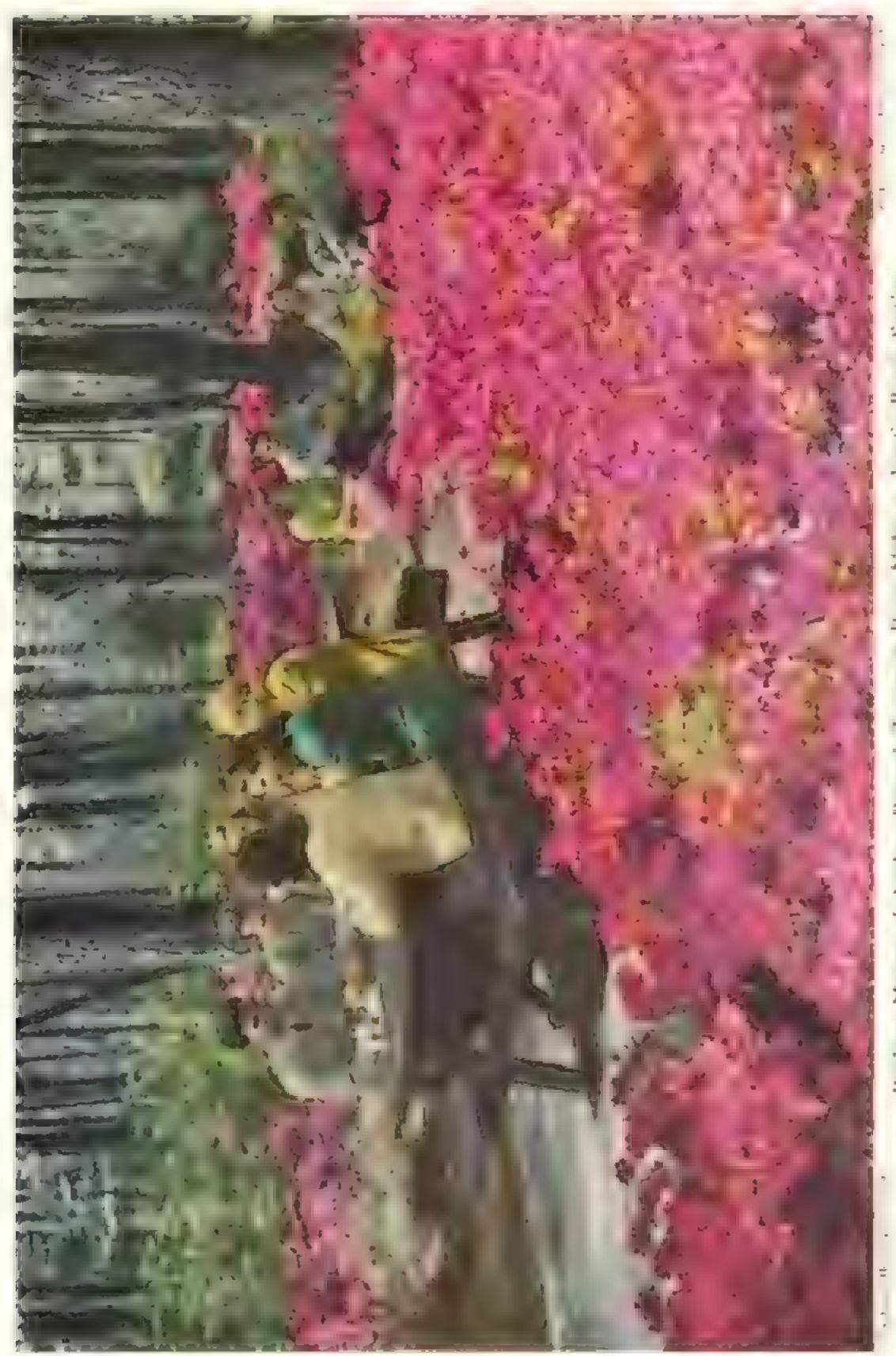
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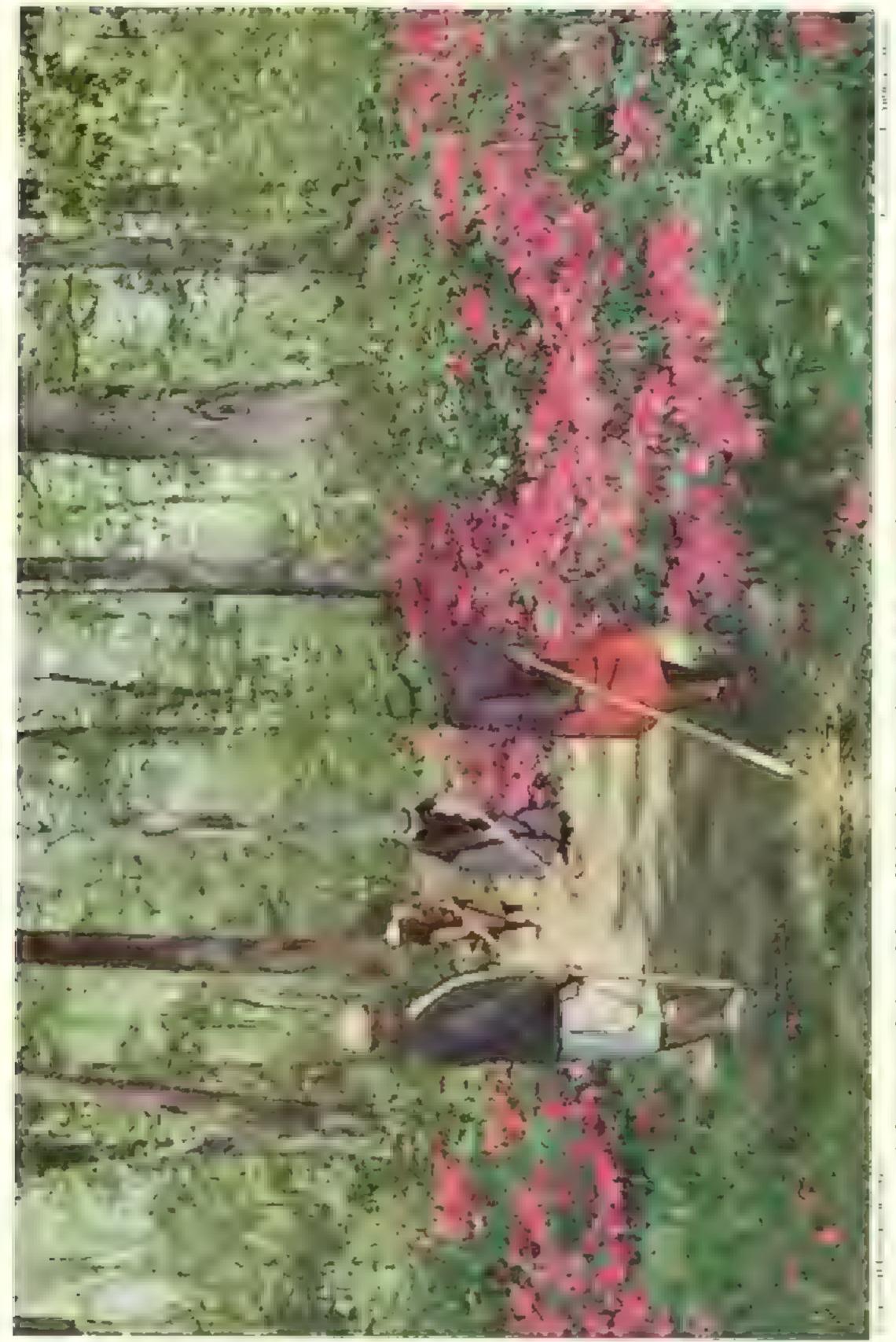


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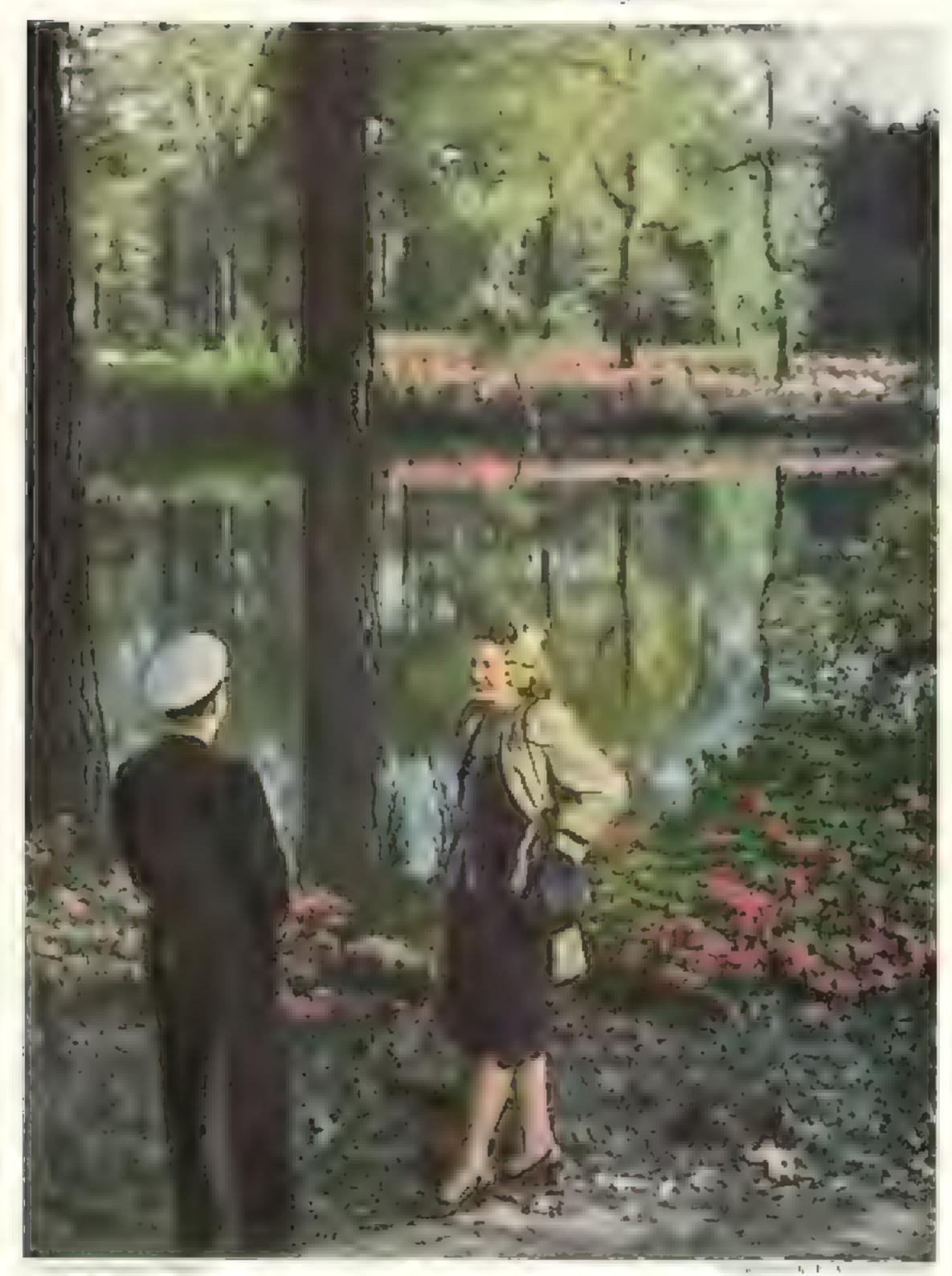






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Landscape Designs Are Planned with in the for Peasing Visits

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Cruising Colombia's "Ol' Man River"

By Assos Burgo

Tith a condor's perspective I peered down from the Bogoth-hound pattern the parade-covered bethnus booking on to the Continent of South An erico one hour out of Panamá

Cohembin's Pacific constline was to the right, its Caribbean frontoge to the left. About, the northern spars of the Andes rushed forward to

translation,

Within a few minutes we flew by the 11,000foot peaks of Tres Marins over the Western Range (Cordfiltera Occidental) and headed into the interior.

My wat companion, a Colombian, smiled

understandingly at my map searchings

"We must fly over three parallel ranges to reach Bogata," he said. "Most of my ten nulling countrymen dwell over 4,000 feet above sen level, although mountains constitute only the western half of Colombia,"

Pack Trains and Airplanes

Felow us, as we appropriately the lower Cauca-Valley, I discerned trails, roads, and towns symbole ion the landscape. Like a giant centipede a puck train crawled along a mountain trail below.

The Colombian continued: "These pack trains provide the only transportation for bundress of mountain communities. We've built most of our highways and railways in the last 20 years. Such construction has been very difficult and costly."

He jabbed his penell at several places on my map. Our people live in half a dozen of so large clusters all isolated from one

another by mountain barriers,"

I could see the barriers. Astern by the Western Range, with its toos in the Pacif Close to the east over the left wing rose the

Central Range (Cordillera Centra).

Reyoud it, and harely emerging alove its 12,000-f of peaks. I could spot the hazy rant-parts of the Eastern Range (Cordilera Uriental). Its farther slopes, a hundred miles beyond, roll down into the spacety settled, river-clithed Hanos, open tropical plains of the tributaries of the Orinoco and Amezon. They comprise over bath of the national territory (map, page 618).

Here was part of the gleanth stage over which the patriot armies of Simon Bolivar, the Liberatur, bartled to free a continent.

At Medellan a dark-eyed caughter of the Conquistadores in the next uniform of an airport hastess assisted me through the cust mato a sleek, American-built airliner of the Actovias Nacionales de Colombia, known as Avianca. We be old for 18 gostà.

"The airplane has revolutionized life in Columbia," sald a Scotsman next to me. "When I came to the country 33 years ago, transportation was in the Mildle Ages.

Bogoth was as isolated as Lhass. Tibet, It took from eight days to a month to reach the sapital, depending upon the stage of water in the Magdalena and how many times the stembout got stack. New we can fly from the coast in little over two lears.

"With nearly 27 years of continuous service, Avianca is one of the world's oldest commercial airlin s—which makes me one of the oldest

commercial passengers," be recalled.

The Colombian pilot beck ned use forward to the cockpit and told me be had been trained by I an American World Alreadys in Florida.

"In 1920, when the forerunner of this line was organized in Barran judia, its Janker's planes carried 12 passengers and nearly a top of freight," he told me, "In 1946 Avianca carried about 200,000 passengers and some 25,000,000 pounds of freight. We think we are doing a good job for Collaphia."

Climbing Through Climates

We crossed the Central Range. Down the 12,000-foot slope to the tawny, winding Mag-dalena, I viewed in one perpendicular glance all the climates of Colon Lia.

Climate is all a matter of altitude," the pilot said. "Observe the bands of vegetation. The tropical zone extends from the Magdalena up to about 4 000 feet. Then the subtropical begins and ranges up to 7.500. You can see the roffer trees in this zone.

"Above this the temperate bighlands extend from 7,500 to 10,000 feet. Above 10,000 feet lie the high, chilly I asins that end in the snow

fields of Tolima" (page 622).

Here near the bot Equator a man could take a thermometer, clash from the futio. Magdalena, and in one day make his choice

of any abmute he desired,

Far in the distance we sighted Bogota sprawling at the base of a mountain in the Eastern Range at 8,600 feet elevation. The suburbs spill out on a 400-square-mile savanna (page 620).

As we swomped in, I observed cattle and sheep gracing, and many farms varying in size from large estates to tiny subsistence

phils.



to from Show Lines

Water Powers Medellin Factories

The second of th

the landscape with its the contract of inedges of willows and confirm a question another the land viction of the tropical lowlands.

The sharp air at the Teel o air, set had the

hing of a New England in time.

A Colombian, his blood themsed from living or re in terrid Barranquilla, tagged his over a cut of our a cout his mark with a mark shad on the hot beather a month of sun-battone on the hot beather at Cartagena rubbed his ods and and of the invigorating an

Like most Colombian cities, Bugeta has made seven-league strides toward to a transfer toward transfer the fact generation. Molern effice mikings shoulder century-old churches.

flogota's Open-air Forms

As I sigragged through crowds swarming on narrow streets. I noticed men talking and materials. Like the Atherenas, linguismos assemble in the open or for discussion. I was afternoon by a papit man most be a large that the urin large mills of these local assemble.

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Remotely satuated Bog it has long injoyed a reputation for hospitality, culture, and good manners. I want to the line in the land of the packing of the land of th

What the contral city of Cartagena was attacked by pirates of the Spanish Main for more than two centuries (page 655), Bogetá, Leich bur Andran wals, secondy developed for toth and mellow ways. By 1571, balf a century before the Pilgrims landed at Plymen, Rock, Bryoto was a cultural center of the New World.

Letters to the Editor

Bogotames write duently and often. The Republic's nurses percologis is and writers a chance to express their views

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I then the way the at Representatives, and executive offices. Across the plaza stands the old Catherical contract the name of a Chibchs Indian capital the name of the lead.



From Tropical Coasts Colombia Rises to Snowy Mountains

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Back at the Grands Hotel, a thousand Colors for british sexces milled in frost of the corner, shouting, "We want Conclude

THE CLARK COLUMN TO A SYNCE

in Colombia." the are after eplied

From Mule I rain to Matorear

After Bogota was founded in 1538 by the glamomats Gonzalo function de Quesada, the car logged along for centrales to the shall the at Sentent telepial to a to But not a in recent to the Long pear to contain the sentent to the shall be a to be at the shall in recent to the Long pear to contain the sentent to the sentent



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Most the Belle of the Bogota Bull Ring!

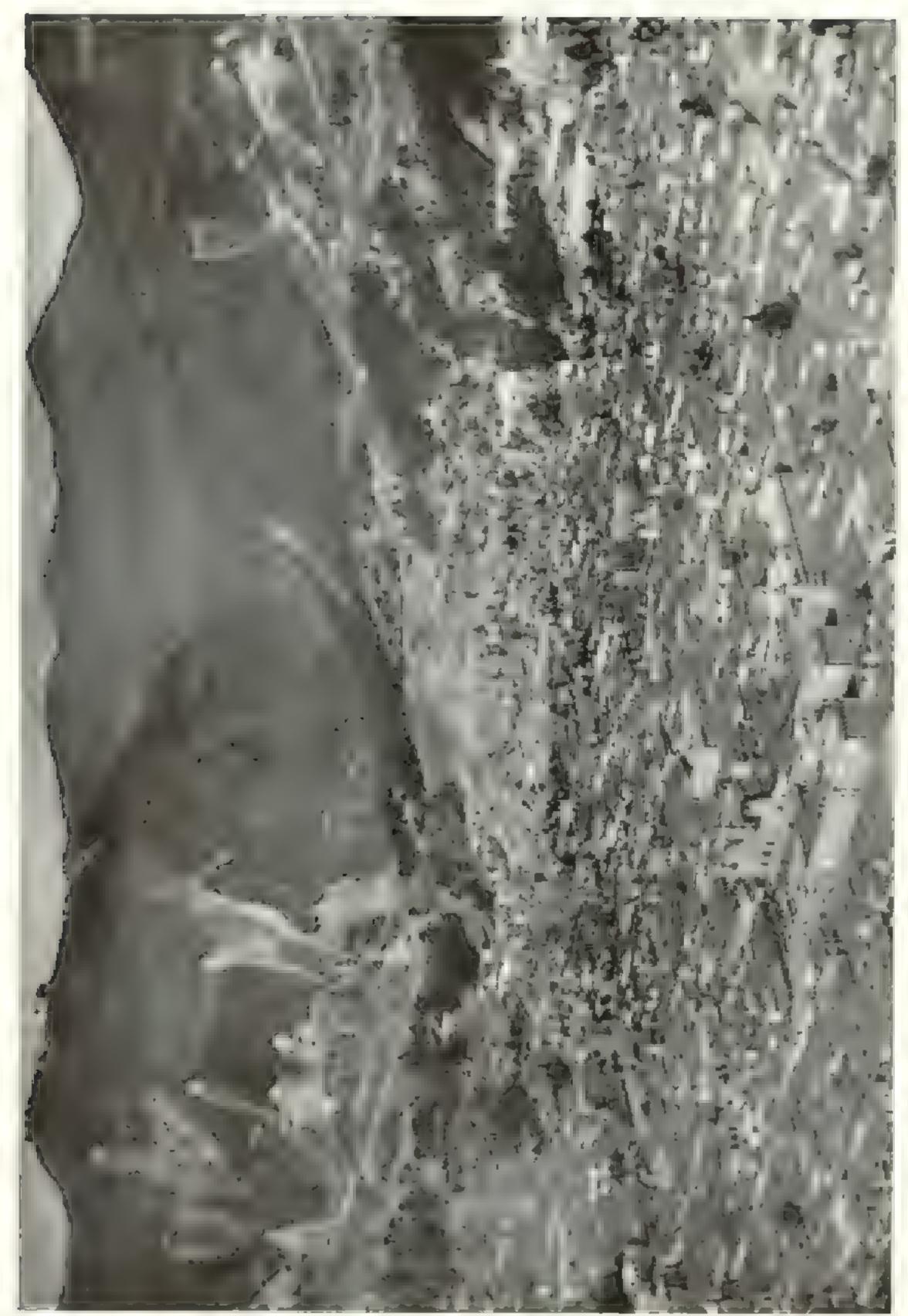
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to have the series were being whered and their lists traffic other than the male of the continue of the contin

The 50 miles of mountainous highway he two extracts and the Habas is a seed example of the material obstacles. Colombian conservations to exercise to overcome in roud building.

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national territory.

As we stood there on the read, three mounted theretos (pain-man) caracoled by their chithes, saddles, and bridles gami laboration many trappings (page 02).

Such hard-riding har semen have profit andly affected Colombian history. It was the llatterns who followed Boost high into the Andes to break the lack of the Someish army in the decisive battle of Boyaca, August 7, 1819.

At present the Hamps country is alternately a land of floods and croughts. The popular parties dwarded to less than it was in 1850. Ken are of deserted settlements and missing fringe the lanely rivers. The past plains, less

than 1.000 feet in elevall m, have spelled had him. The many

But Calombians, whose intropid fore-fathers creamed first of the empire-that am-quered, speak of the lands as a fantastic land of turknown wealth and opportunity.

They quote former President Althorn Libpez, who said, "This is the hard of the future.

At the foot of the Eastern Range we marned that the old frontier town of Villavi enclo believed the for several reasons. American and Colombian oil explorers were dushing back and forth between their town headquarters and their concessions in the Hanos.

In an attempt to climinate ore lar to successful settlement of the Hames, the Rukefeller Foundation, in Po-operation with the Colombian Gavernment, has for some years been studying the transmission of jungle yellow lever by wild animals and insects, e-pecially its main mosquito vector, Hacmaeighs sponderenn vall. fair o. "

"We shall also have a slaughterhouse," a cattle buyer told mr. "Our cattle lose 1 - much beef climbing from here to Bogotá."

The Lignos One Big Airfield

"We feel that we've speeded up settlement in the flames," the break agent of Aviance said. We serve 240,000 square miles. Just tell us where you want to go,"

the spread out a map showing Avianca's as and iting and though the little and

"We carry anything, anywhere. If a rancher

"See "Life Stury of the Mosquito," by Gepham F aviile, and "Substeur Moscul see," by Harry II stage, both to the Natural George Mosacus to extrust III.

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Remarks the Court Range of the C

Cauca River and Landing at the Call airport.

The change from the high savanes of Regold to this sun-dreathed city at the foot of the Western Rance was respiring. For one thing, my tight chest cold brought on by overexection in the high Andes vanished in the mild and salubrious air of the Canca Valley.

Call: In Ameninded

Call had a carefree, wide-awake 20th-cen-

tury air in a choolal setting.

Since the completion of the Pacific Railway in 1914, an ever-increasing volume of freight has poured through Cali from westem Colombia for the ocean port of Buenavenlum. But Cali really began to build and bustle when the city become a major air terminal for airliners flying up and down the west coast of Stath America. This gave the city not a-wide connections,

Girls walking to wark in light, colorful dresses seemed to enjoy the softly falling June rains, knowing perhaps that a few minotes of sun would dry them us thoroughly as

a Turkish town!

Once I was caught in the hottedcal garden in a sudden cloudburst accompanied by high words. For an bour I crouched beforely under a leaky umbrella tree while the deluge flooded the streets. The Cauca on I its tributoies can yellow with the tich topsoil of the clot.

Driving if y tree car all, see the first we streets was an ordeal. Both cars and bases dash with unslackened speed through the blind intersections, depending upon a warning book to evert a collision. From the modern reservoir on a hill overlocking Cali I heard hundreds of books fleating up from intersections.

Beyond Call the Causa River wended through a flood-plain valley 15 miles wide, nordered by the shouptly rising Western and Central Ranges. The valley extends from Popayan on the south to Cartago on the north. Its incredible fertility and summerlike climate inspired Baron von Humswoldt to call A "the paradox of America."

The direct is of the agricultural station at labout took me on a tour of 300 acres of experimental crops. He pointed out tobacco, rice, tacao, cotton, beans, yuca, and many other crops being improved, including nu-

merous varieties of citars fraits.

Spanish Cattle Become Calombian, Ton-

I included about the Spanish cattle graz-

ing in the lash valley pastures.

"After so many penerations they have become Colombian cattle," the director explained. 'We have imported the inge, tick-resisting zebu from Texas to invigorate the strain. The zebu gives our cuttee size and staminar then we generally our about three other local literals to improve the quality of the beef."

One day when I ventured a quarter of a mile into a passure a lunge. Texas-horn solubull, which appeared to be about the size of a baldwin locomotive, rose out of the grass and came charging at me. On the bonnestretch I was diving headlong the right the barberl-wire fence and the brute was snorting thown

my neck.

One day I enjoyed a 10-mile drift flown the Carlon a farmer's bamboo raft loaded with pidtunes, or plantains (Plate IV). Throughout tropical Colombia they are served cocked in some form for almost every meal. The raft-farmed landing near Cali where the platanes were unloaded and a dd resembled a cluttered invasion beachhead.

After the platanos were taken ashore, the raits were pulled apart and sold. A 30-foot length of bambon suitable for building construction brought about a dellar (Plate V).

I metered out to La Manuelsta, largest ril Colombia's de zen et so sugar mills. An ideal climate and a fertile soil have mode sugar a top crop in Colombia's richest agricultural valley (Plate VI).

Mules and Oxen Mave a Sugar Mill

"La Manuelita was longht by James Eder in 1864 from the estate of the father of Jorge Isaacs, famous Colombian povellst." the superintendent said. "It had a primitive mule-driven sugar mill then. Mr. Eder's improvement was to install waterpower.

"In 1800 he began the Herralean task of transporting by mule and ower an entire steam sugar mill from Scotland over the Western Runge from Buenaventura to Polmica. The mill required three years to transport and erect. At one time, I 700 males and 600 owen were used for transport."

Today 7,000 acres growing sugar-come stalks 10 to 15 feet tall keep some 600 employees feeding the mill grinders the year tound

The waves of progress that have modernized such cities as Cali have only begun to hap at the traditions of the smaller colonial towns in the valley.

I motored cut to Bolivar to see Kathleen Romuli, an American woman who liked Co-boulds so well that she wrote a book about it, then bought a small farm and decided to stay.

We strolled through her adopted viliage, "Six families have familed the nucleus of the society here for over 300 years," Mrs.



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Queen of Colonia, Cities

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concessions to modernism. The splendid new instruction backing for the Department of the action basis on adouble lines and registration also be of the contactor.

On my arrival in Presson I put up at the Linchergh Hotel. The "Lone Eagle's" Latin-American goodwill flight also inspired the names to emboss his plante Spirit of St. Lones on the during room plates and soup bowds,"

Pophyan is tenaciously conscious of its menucles. The silent shades of her illustrious sons—poets, scientists, statesmen, patriots, engineers, and several Presidents of the Republic still live in the hearts of her

թագրեւ.

Letter of Santo Domingo Church directly across the street from the hatel awakened me at 5 are, and kept me awake by ringing in tather insistent times at 15-minute intervalsuall 8. Women and girls came down the quiet streets and entered the church for Mass.

"Yes, Sellor," my waiter said, "they are beautiful bells. Our guests never fail to men-

tion them."

After breakfast a sunny, open-faced boy of 15 met me at the hotel entrance and with innote and charming courtesy offered me his services as a guide. As his lare feet pattered at the pavement beside me, our course was illuminated by his running commentary.

This, Senor, is the Street of Patriot Fathers. Many great men of my country were born in these homes. Some of them became martyrs for freedom under the banners of Bolivar. Here is the home with its great patro where our beloved poet Don Guillermo Vileraia, known to all Calombians as FI Maestro, lived and sang his praises of Popayan (Plate XIII)

"Many times he has spoken to me here on this street. I know some of his poons by heart, and so does my frence the shine boy, who pulished your shoes at the hetel this

marniby."

Many houses of Popayan were Andalusianstyle, with large windows, spacings paties, and wide doors, bailt by a oblemen who brought their fandlies from Spain after the comprest. The family cout of arms hung above the doors,

The "Voice of Popayan" Bel-

A years professor of literature from Pepayan's University of Cauca walked with me to the Place Caldas where attractive seinmas with early hair and lustmus eyes promenaded in pairs as twilight prept quietly down the dreaming streets.

Across the plaza, in the belfry of San Franties t Church, the great gold and bronze bell known as the "Velce of Lopayan" toked the Angelas for evening prayer. On the Central Range the volcator Peracé threw a fiery curtain of ashes into the sky.

The professor philosophized about the

United States:

"I know your country has a great Industrial output. For avan is a city of 30,000 presons and she has 30,000 poets."

Then he added, "Of course we recognize your contribution in making the jeep; it would be wonderful on our mountain roads."

The mountainous area extending south from Popayan to the Ecnadoran border is little known to the average Colombian. An American mining man who had driven into Popayan from Paste, 175 miles to the south, described the Pan American Highway through this region as "a zugzegelng, breath-taking trute along high precipices,"

During the war of independence Pasta was staunchly royalist. How these remote mountain communities ever heard of the wars and revolutions that harassed Countil until the end of the 19th century, let alone ever got to

them, always paraled me.

Toon my ceture to Call (tack the moleogratem to the port of Buenavent on on the Pacific. The raute, which reposed hundreds of pack mules upon its completion in 1914, climbs through a 5,000-foot pass over the Western Range.

As my train coasted down the seaward slope along the Dagua River, the brouriant jungle and air, bearily scented with jasmine, became nore and more redulent of the Tropics.

Boensventura a Busy Part

My hotel in linenaventura booked down up to one of the best-protected harbors on the west coast of south America. The docks, terminal (acidities, and warehouses, us up-to-date as these of the Canad Zone, row bandle freight for western Colombia.

Muleth hiddings have established a beach head out the water front and new ones are now slowly engulang the offer town of mannew streets and ramshackle structures.

I be mornings in Burnaver tura were but and depressingly sultry, but around noon a fresh-cuite breeze it on the Pacific began to rattle the split-lumboo curtains on my balcony.

I ben I studied through my hinoculars the Indian and Negro outrigger cances scudding for town laden with cargoes of pineapples, yacks (rassawa), cern, and fish. As the cances approached the boat basin, the men generally

*See "To Begott and Back by An." by Cal-Churles A. Lindbench, Naxo Sat. Governmente Macuova, May, 1928

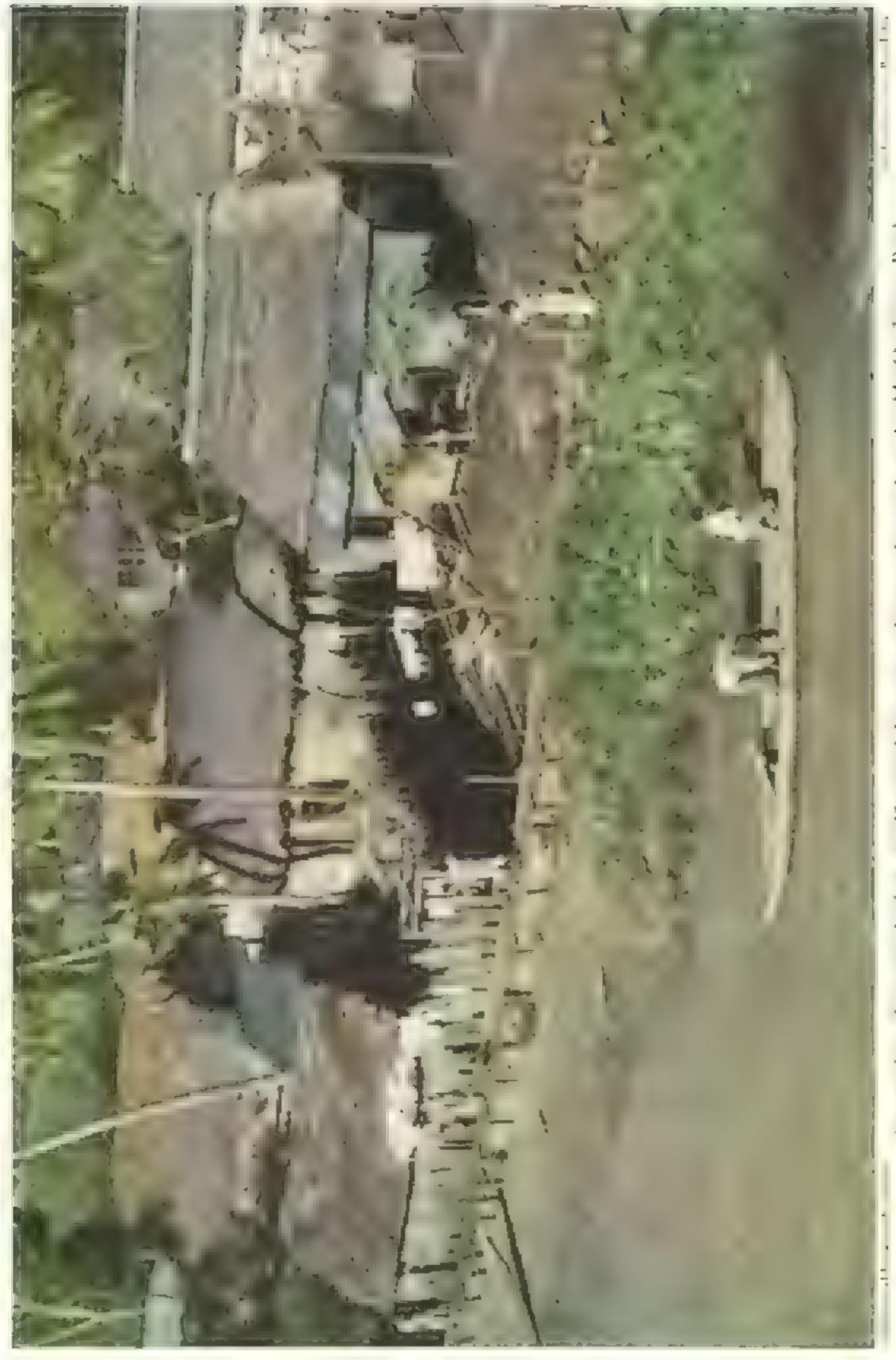


A Josephineken Steindight Process Franket Bringes up Colombia's Mine Britania.

For four explaining the Magdalena kivet has been the chief traffic arthry from the form of the first process of the fi



Charles II. or at





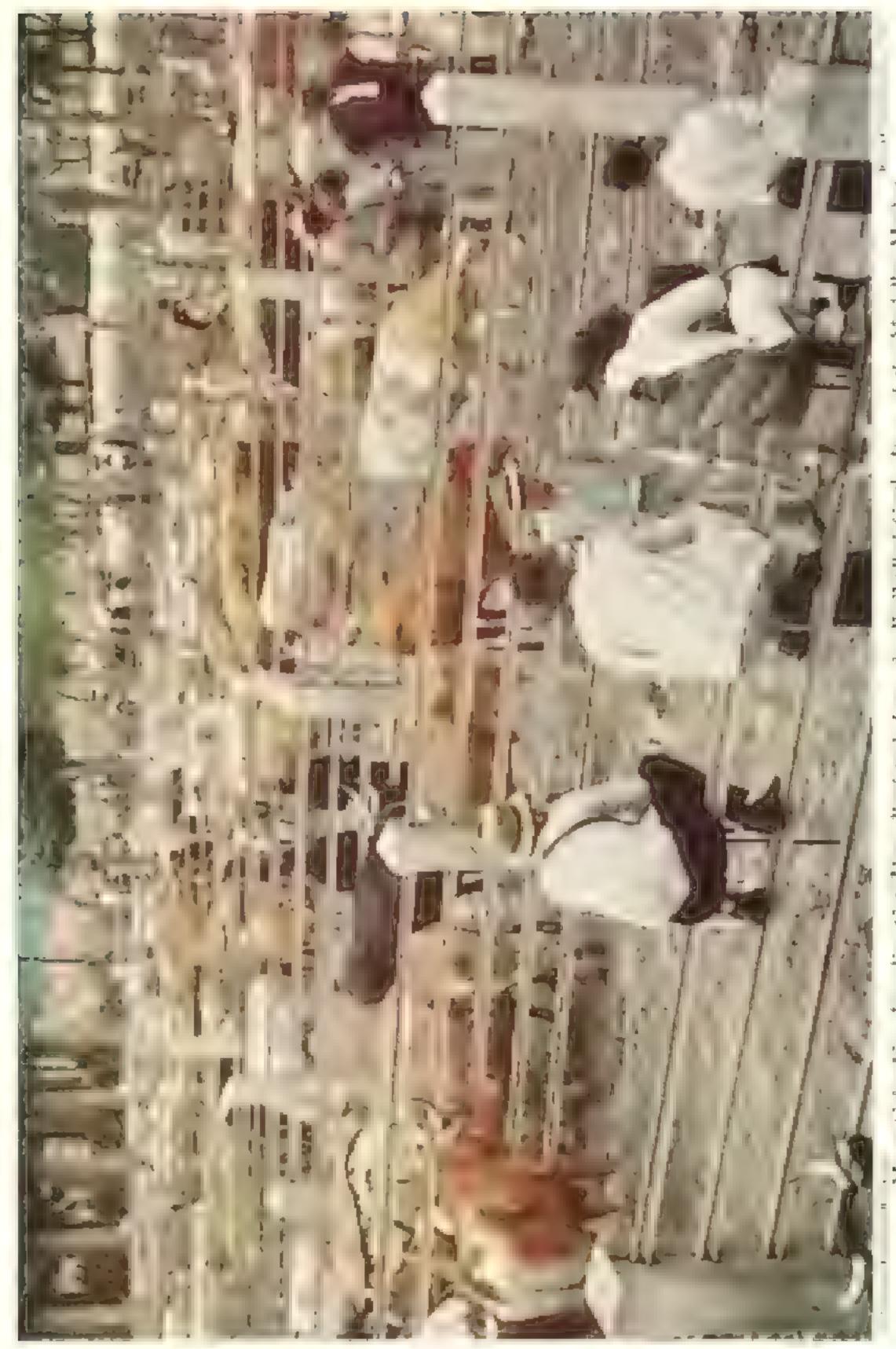
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At Journay's End the Rollst Are Discountled and Reassantified as Houses





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Medellin's Starshine Ropens Grapefeuit Att Year Bound

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slipped a pair of trousers over their breech-

When I visited the basin the Indian's fastinated me. The men were grave, alguinol, and well set up, with clean, reddy skinsspattered with scars from jungle scratches. Their black hair was bobbed out evenly. The women, slear er and nymphilike, wore only a laincloth.

Dinner with an Indion Family

No banquet could have honored me more than the meal I was invited to with an Indian family aboard their duggat. While we squatted and feasted on roasted yams and boiled rice served by the lattle pother, they answered my questions with frank simplicity.

These Indians be, mg to one of the four tribes innabiting the Choch Intendency, which extends from the San Juan River, just north of Banaparenti et, to the Panamanuan Lorder.

The Choco, with approximately 18,000 repaire miles of area, has a population of 111,000 and a climate that would be the lespair of any chamber of commerce. Rains heat down for 300 days a year on bot, pestibutial jungles.

Negroes, descendants of former slaves who worked the mines, have proved even more adaptable to this covernment than the Indian, who is being shoved back into the less accessible regions by the black man. Cayacos (dugout canoes) used on rivers and bays are the only local transport (page 629).

The Checo is rich in gold. One morning I struck up a conversation with a middleuged American in the hotel foldry who was carefully scarsing the advertisements in an aviation impagine.

He said be had lived and mined in the Choró for five years. He insisted that he and his wife had found more happyness here than in New York, where he had been a welling contractor

They had a rudio, icebox, and washing machine, all operated by their own hydroclectric plant. Once a week a plane dew in with their transacines and other mail. The country, he said was largely unexplored and very rich in gold and platinum. He work was tracing gold with Negro labor, but his holdly was finding the gold.

I inquired about his interest in aviation.
"Oh" he replied, "I am going to buy a hel's
copter so I can dy over the jungle on my exploration trips and sit down anywhere."

After returning to Call, I bearded a train running northward through the Cauca Valley for Medellin. Beyond the relouid city of Cartago the train followed the ranyomed Chaca,

then left the river and climbed up the steep shops of the Central Range into Medellin.

Although Medellar was (annied more than a century after most of Colombia's principal cities, it has assumed leadership in the economic life of the country. Numerous milks sounced their vil. tapt chapt of greeting. Perhaps the climate is partly responsible for the accomplishments of its citizens; the continuous treshiess of spring pervades the city (I lates VII, VIII, XII, and page 643).

for over a century the Basques, Andalusums, and converted Jews who founded the city remained locked within their mountainglaged basins in self-sufficient isolation.

"We had large families then as we do now," a leather manufacturer, father of 18 children, told me. "Since 1800 the Department of Antioquia, with Mededin, has colonized many towns; yet our own population has continued to gree. In fact, Manizales, built on a knifelike tilge 80 miles to the south, is already competing with us. When Medellin had a bad airplane wreck, Manizales wanted to get a larger plane, fill It with more people, and stage an even bigger wreck!"

Colombians, interested for centuries in cultural pursuits and posities, are turning their competent hands more and more to such cadeavors as promoting world coffee markets, manufacturing textiles, and managing hirlings.

Students who farmerly went to Europe for education are now turning to the United States for courses in engineering, agriculture, chemistry, and basiness, to supplement courses in their own numbersities and universities

The manager of Fabricato, one of the largest of Medell it's textile mills, invited me out to see his factory.

"We have made great technical and somil advances in the past 25 years," he said as he guided me across the enormous floor where 3,000 workers tended 1,500 chattering weaving much hes and 50,000 spandles.

"We produce cotton textiles for the domestic market and also for export to Verezuela and boundor. Our company has built durnitories equipped with lounges, radius, and legture rooms for employees. Also we have a clude and a 50 bed hospital, which are likewise amintained free for the employees."

A Gold Misse for Every Family.

Almost every Antioquian owns a gold mine," I was told in Medellin. Gold supported the Antioquians during the lean centuries before coffee was introduced. Today the Department of Antioquia accounts for one-half to two-thords of the gold and platinum mined in Colombia.

Albuvial mining began on a large scale in IvOd when Jack O'Brien of Carman, Nebraska, trained his hydraulic nunitors against the mountains of Authorpsia to wash out the pold. Besides the mountains and pold dredges, small operators work the creeks with their

with the property

I never lest anything during my stay in a combinate because strangers always returned pieces of equipment I had mislaid during the commotion of tracel. Several times I was warned about perty threves and told how even trace caps and windshield where disappear from cars left on the streets. Yet make pack trains from the mines, haden with earles of gold dust or bars of gold and escorted by a few maleteers, a lod along longly mountain trails, bound for the tracest point of ship went to the Casa de Moneria, the Government's religing and owny office at Modellin.

Here I watched a small Ford truck, I aded with gold bars, tattle up to a halt. An unimpressed driver climbed out, reached over the tail gate, and grabbed two bars of gold, which he than It exed into the huliding, leaving

the rest of the gold unguarded.

the truck was jet armored. No eagleeyed guards tingering the triggers of their
tommy gams stood about. I hadred for the
talve caps on the tires; yes, they were gone.
The windshield wiper the driver was carryang in his pocket; he just wasn't taking any
chances.

I wan lered into a room where workmen were prairing a hundred pounds of gold into bars (page 059). It was some time before I could attract anybody's attention to ask questions. I inally I was left free to play with a stack of gold bars while the men went about

their basiness

Commercial Medellin shares with the rest of Colombia the art of gracious Lylng. Here, in 1891, the Society for Public Detterment was organized. It is comprised of public-spirited men in a hundred communities throughout Colombia who strive to make their towns I can ful and progressive.

The Colombian tells you, "No city can be great without culture. We will make our city

mate to

Orchids-and More Orchids

One evening on my way to keep a 9 o'clock dinner engagement, I stopped at a flower store and purchased six orcheds for my bustess. The price was 50 cents. I bought a dozen more.

When I arrived at the home and stepped into the softly lighted patin. I saw scores of beautiful exchids hanging in kaskets around

the cdue. I pave the orchids to the maid who had answered the door

As I rambled about Medillin, sometimes I caught glimpses through an open door of a sunny paths, hung with ferms, flowers, and caged singing birds, and with a fountain in the center.

in the surrounding hills I visited white villas with I wely gardens which grew more flowers, fruits, and vegetables than I could name. At such an a titude in the Tropics there is scarrely any change in temperature throughout the year. Lettace planting is staggered to supply salads the year round.

Here the currents of Spanish heritage in architecture, art, religion, and trade have been trangling only for a generation with those of the New World. Window balconkes protruded ato the street just high crough for me to bamp my head on dark rights. Behind the lars of those world we the faces of senoritas glowed softly in the two ight faces 6261.

One night I was a hystander in a serentde A remantic lover stood outside a shuttered wind was and woodd his lady with a skepiece orthestra and a vocal accompanist he had hited. An onlacker -ighed, "Ah, the senortalies awake with her head on her pillow and

the 1s very happy."

there is Colombia's king crop. The price brought by the 4,500 000 hags of orfice that flow to world markets from thousands of Andean plantations each year means much to the country. Coffee makes up well over half the total value of all Colombia's exports in most years, and sometimes much more. Its price determines to what extent Colombians can purchase foreign goods and raw materials for domestic manufacture.

Life among Caffee Growers

Field man of the National Federation of Coffee Growers of Colombia; took me on a two-day tour of culter focas, small farms or plantations. As most of Colombia's 900 million trees grow on slopes too steep for other uses, I rade a mule. The mule seemed to be always pointed up or down. Occasionally, when the beast leveled off, I'd relax my grip ar and ble neck and catch all mpses of unca life.

Much of our traveling was done through small family fineus that raise '00 percent of Colombia's coffee crop. The j-b of picking the crop is enormous. Millions of pounds of dark-red "cherries," as the coffee berry is known, must be picked one by one. A tree yields on the average one and a balf to two pounds.

Machine inventors are stynded because the



5 I

Admirary Friends Watch a Medellin Artist Paint a Mural of the American

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"It's My Ball!" Shouts a Soccer Player in Galapa's Village Surana

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grain and potatoes from the plateaus and mountains of coffee from the threas of Antoquia and Caldas for the 500-mile voyers down the Magdalen i

Checking a letter from the requirement of the captain, which rather was to be a partie of the factoria, I strate up the gangway with my equipment, threaded my way among the milling passengers, put my baggage down in front of the captain, and presented my letter.

You the company had not sent my ticket to him; in fact, he'd never heard of my. Be ides, the captain hanted, all of his cabins were occupied. The suggested that I take abother less.

The lite to mistreat a loss. Because that I at the source of the last of the source of the s

trade a late gave me his later to whole that a broken window. He was the ship we under way

With these lying and orthestra playing we swung discussive an bound for Barranqui.

Now unage way, the cooking upstream breeze tempered the sultry tropical air. A

grain and potatoes from the plateaus and magnificent river panorama began to undob-

From the top deck I gazed down on vilting, towns, disjouts, forests, and men dualing the rest on bulsa rafts heaped with planting and other tropical fruits

thesianally we passed women scrubbing clothes along the shore and gossiping the while

The Jesusita threatned with the faint tremor of progress as the 8-f set pistons turned the huge stern wheel 10 revolutions a minute. The steam exhaust emitted a plume of white steam our the threshing wheel.

The Magdalega River, pavigable for 800 piles of its the usual priles, courses through a mountain-walled valley sparsely cettled Succe Quesada's men towed their boats again a its turgid current in 1537, on their way upstream to found Regeta, the river has been the main trunk of Colombia's transportation into the interlor (Fintes I, II, III, and X).

Forning Back History's Pages

Of the main their an chies, al, but four are in the Arms. There their founding, their first mule trade a 1ght the Magdalena for an affect to the sea.

For me it was like turning back the pages

of history a hundred years. The Magdalena River traffic is like that of the Mississippi at the time of the Civil War. Half of the steamboats carry passengers, mail, and express.

The passenger and express builts, such as the Lemana, Suntander, Medellin, and Cata-tumba, which maintain relatively fast schematics, shore a single steel barger freight steams

brats handle five or six.

The Magdalena is for from ideal for navigation. The channel is constantly shifting. No attempt is not be to central it by use of wing dates. The capticinas cuttents dig where they may. It is up to the pilot to to id the water and know his river. It takes ears of apprenticeship to become a Magdalena Rever prot.

I spent many hours in the huge whichhouse where the pilots live during the whole voyage, sellou coming down to the lower decks

On pitch-dark nights, while lying down helow in any bunk, I could tell when the channel was bad by the excited way the steering can e tan back and forth in the trunch that passed through my stater orn. Sometimes there would be a bump when we hit a far and the bells in the engine room would clang.

but only the steering cable would register excitence. The priots exhibited admirable

skill and coolness

During a voyage or the Newtonder I saw this "river quern," with her three decks full of people, jain hitself crosswise in the parties river above Barrancabermeja. The captain, who was playing with a baby, scarcely tooked up. The pilots skillfully extricated the ship from what appeared to me a perili us position.

During low water a duren of so boats may be stack on a bar for days awaiting a rise in the river. As the supplies run low, that le are driven down to the boats for food, an I

crews scout the barn for turile eggs.

Rice, Benns, Rico-and Reams

The trip is by no means an Epicutean delight. I had my plate of native rice, with a fried egg on top, for breakfast. Rice was served three times a day. Beans yied with

rice in number of times serve i.

The cow, which I knew would be served for the evening stew, was chopped up on the barge ahead in the morning. But the valley is a commissary of tropical fruits, and these weighted the tables in bountful braps. I took almost live on the fruit, and it was very cheat. I purchased a basic basket of orapges for 10 cents, and the vendor threw in the basket.

Between the fiver towns there was an almost

unlimber line of forest, parted occasionally by a grass had set in a thry clearing just large enough to maintain a subsistence garden. On the control of the analytic and a large transfer and a digout was monted to the bank.

I was up carly each morning to see the varied bird life that gave sound and color to the green forests. Carly planned long-tailed macawe held reacons conferences; fruit-eating toucans with their enormous besies split the air through the shadowy forest aisles; garageing, thattering kinglishers awang low along the water.

As we approached the flat delta country where the Western and Central Ranges fell away from the giver, thousands of white egrets starked the swamplands.

Towns That Stood Still

The dizen river towns where we stopped, such as Puerto Wilches. La Chris, Mompos, and Zardorano, a me dading from the compast, are almost as isolated by their forested and swampy hinterlands as the mountain-ringed Andenn towns. They have remained the same for generations. Some have deteriorated, although the buildings often possess a kind of rubed dignity (Plates X and XIV).

For everything they depend upon the river. Even with such a moduture or steamboats, the three-timed whistle of the Jeanute signaling for a kinding stirred one of these river towns like a stick in an antiall. People beclined for the river with their wares and produce, and

many with only their carlesity.

Some of the towns, such as Boras del Reserie, have the and thatch-roofed houses and narrow alteys, moddy and wet from the tains. They seemed to have slept for three centuries. Others have awakened to had the river diversed and a much bar deposited in front of the town. Or the hungry river has eaten away the banks and threatens to engulf the water front and carry it thownstres a

Mompos, 'Valiant City' of the war for independence and once a chief trading past on the Magda, end, was put off the main river

by a channel drift.

Its market steps stid wake right down into the river where dugants tie up by the scotes, loaded with fruit and vegetables.

Here a tiol submer widow ceded a million actes of staring land to a Mormon company. It imported prize Herefords and attempted to start a ranch, but floods, droughts, and fever defeated the project.

As we neared Burrant, I'm, guils, graceful barbingers of the approaching sea, swung in behind us. A fresh wind whipping up waves



Open-toed Sandals bit the Stirmes of a Hard-reduct Plan stook Overveer

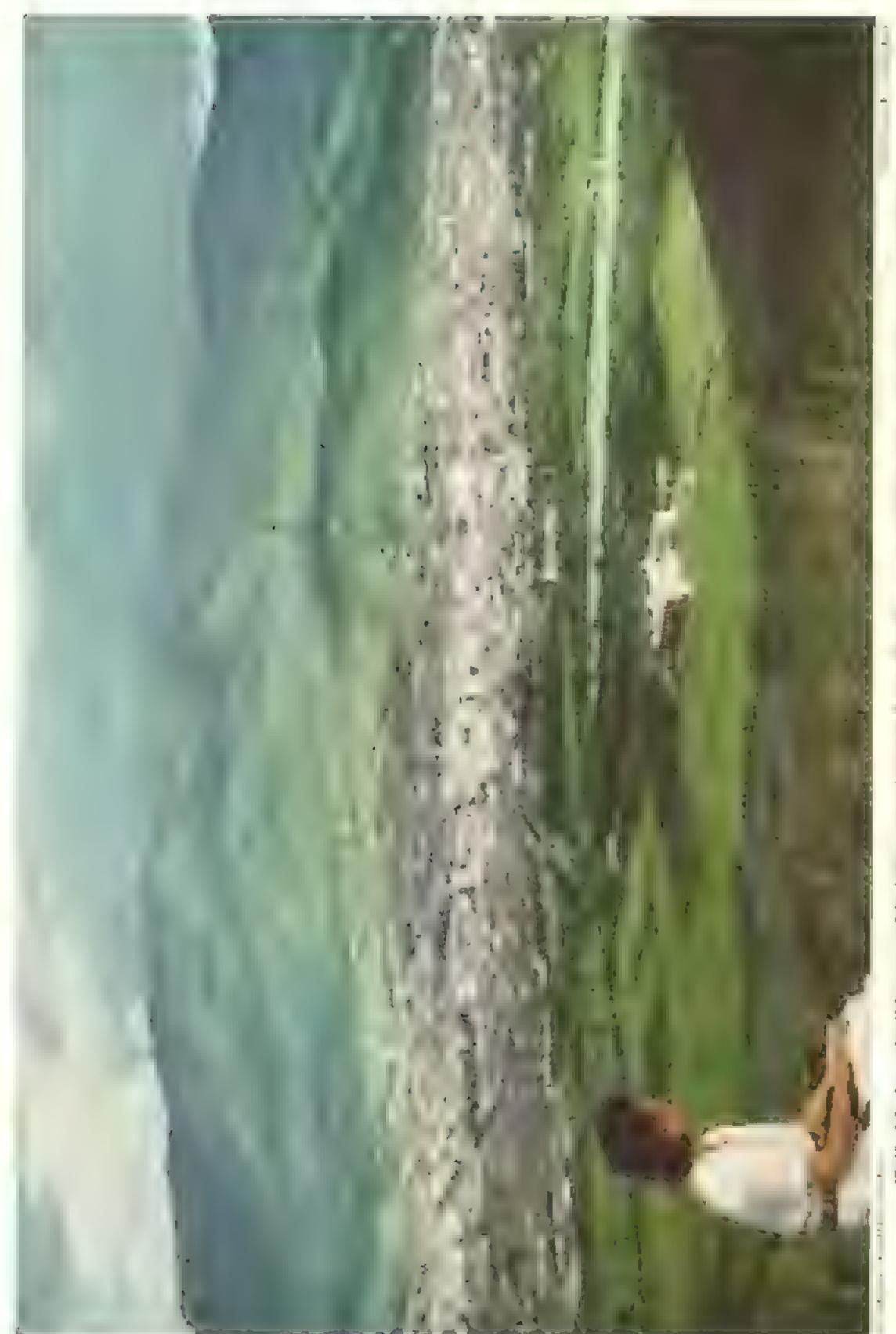


The sheer elements and weeks follow tradition for this Roman Catholic sacrament. It is the May when though the omenhantly Spanson (v) lorers proclaimed () is a like in the in-

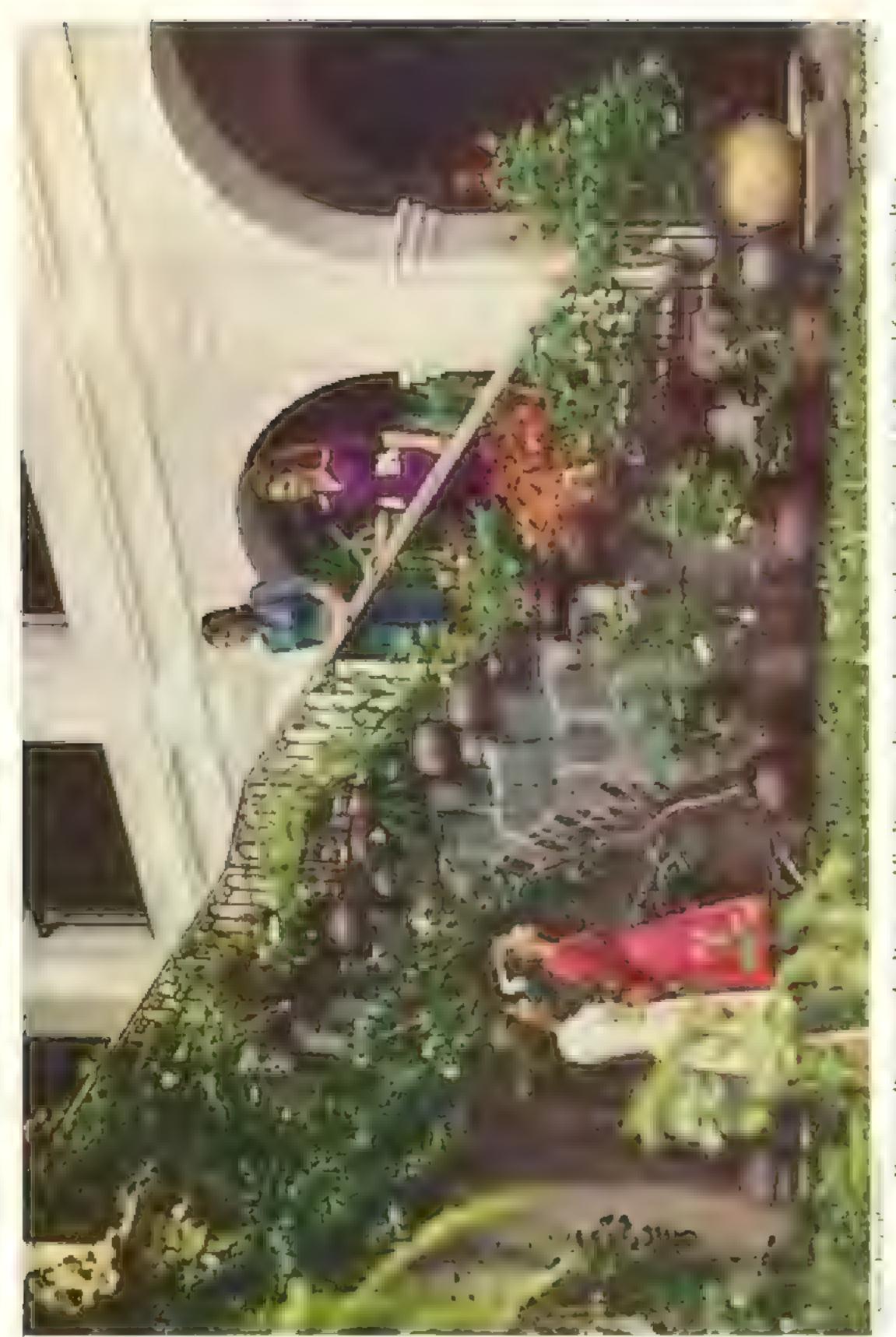


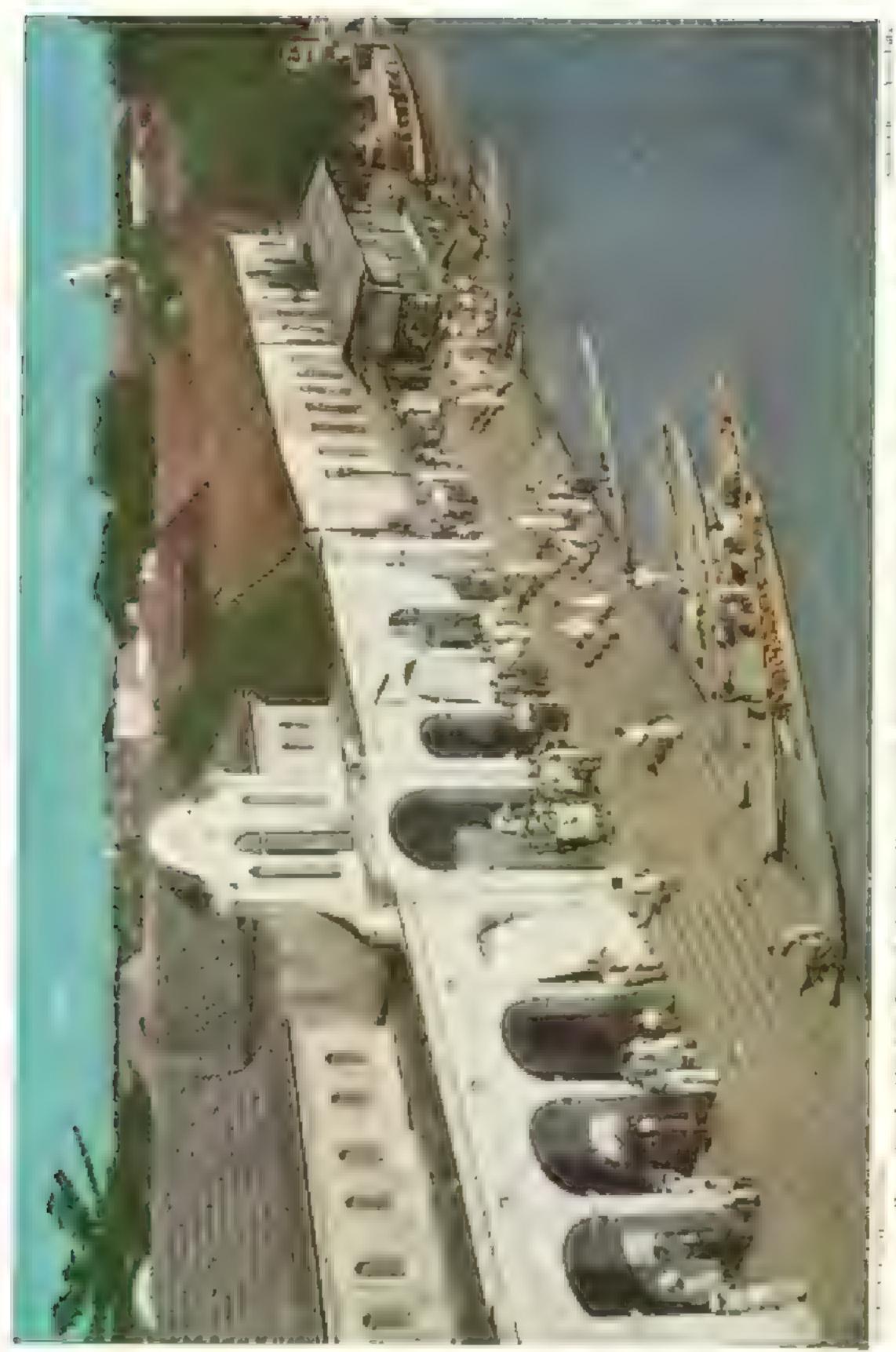
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Polarposture Barrier State Carares along a States Canal in Isarrangailla

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on the river made the Jesusita's bow flop like a namber 12 slipper on a number 7 fout. Fastr days after leaving Pareto Berriu, the Jesusita docked in the steambout clattered basin at Barranquilla, Colombia's main port on the Caribbean (Unite National) race 557).

In the general sport of progress that affected every large city in Colombia, things have hap-

pened in Barrangailla,

The city is situated on the west bank of the Magaziena, 12 river miles from the sea. Its progress really began with the unplugging of the bar-cheked mouth of the river.

This was accomplished by constructing two statured made a fact to the state of the five time. to scour its own channel (brough the malions of tons of all dumped aroually on the but.

By 1935, 10,000-ton vessels were able to come over the bar and up to Barranquilla to

discharge their cargoes.

Long-time rival of Santa Marta and Cartagens for the overan outlet to the Maggalenn Valley. Barranquilla now controls a major portion of the trade. But the bugulow of a stiting river mouth still haunts port authorities.

I fought the new Harranguilla had a pure water supply, excellent municipal services, attractive homes, sport facilities, beautiful Farms and protuctioned, wild one of the best મુન્યા ફેર્યા માર્મિક કિલ્લા કરા કાર્યો છે. et a crossionds for planes shuttling between the Americas.

as I walked the sumpy streets where the tropical sun glared from the whole buildings, an urchin called out, "They, Joe, gotta charette?"

Memories of Baccanvers

I serived in Cartagena, lying three bours' journey by read southwest of Barranquilla, after seven months of trepical wanderings. The "Queen of the Indies" I had saved before

departing ir im Colombia,

Founded in 1533, Cartagena was built into the greatest fortress in the Western Hemisphere. Today it remains the bemisphere's finest historical nonsetun. His city wash, 40. feet high and of feet wide in places, with 27 bastions and cutlying forts all connected by underground tunnels, were two centumes in the building (page 656),

Beganse of its wealth, Cartagena because the covided prize of the but cancers and preates. of the Spanish Main almost from the day of its founding. Here tribute and booty extracted from Spain's South American colonies were accumulated for transport to Spoin on the treasure fleet which sailed yearly usage convoy.*

Sir Francis Drake with 20 ships descended on Cartagena in 1586, sarked and set fire to part of the city, and even stale the church bells. After nearly two months' sojeurn, this

ungrateful guest departed,

Nimity a humbred years later the French haccamer Jean Bernard Desjeans, the Sigur de Pointis, besieged the city with 22 vessels and 5 0000 men.

In 1741 Admiral Edward Version with a powerful British fleet of 186 vessels and 25 000 men, including American Colonials, attacked Contract Mar Saule - Seattle No. 100 retired to Jamuica, leaving 18,000 dead. Lawrence Washington, half-brother of George. returned to Virginia after participating in the mesaccessful compagn and on the banks of the distance of the first the second of Mount Verner in honor of the Admiral

Cartagena, embracing the ideals of Bolivat, was the first city to declare its andependence. from Spain. The Spanish army captured the city in 1815 after a terrible siege, during which c,000 Cartagemans died of starvation and pestilence. In 1821 the city capitulated to the forces of Holiver, and the Spaniards had to -adulty the tricy for of Colombia.

For a week I wandered reverently through the twisting, narrow streets of this heroic city where every stone is a preclude heritime. Even here the closely kait city has spilled over the ancient walls lute new residential sections that rival those of Barranquilla,

Carragena teday is beginning to receive an increased share of trade from the Magdaleta. Yadey. Trails and rivers connect it with the wast back country of Bolivar Department. where range tens of thousands of cattle. Some day travelers will rediscover this glorious old city, and treasure will again flow into ber Collegs.

Down the Caribbean coast close to Cartagens I watched taakers had Colombian adfor world markets. Through a looped 10-inch. pipe line with a capacity of 55,000 barrels daily, oil flows from the more than a thousand wells in the De Mures concession, in the Magdalena Valley, 334 miles from El Centro to a terminal at Mannonal, a few nikes below Cartagena. For most of the way the line parallels the river.

From Petrilea, in the Barco concession on the Venezuelan frontier, oil flows through a 12-inch pipe line—capacity 75 000 burnels duily for 253 miles across country to the

port of Covenas.

I flew over part of this time. For a distunce the pape is laid through jungles where painty stations force the "feat'k gold" over mountains. it mile high to the Magdakha Valley.

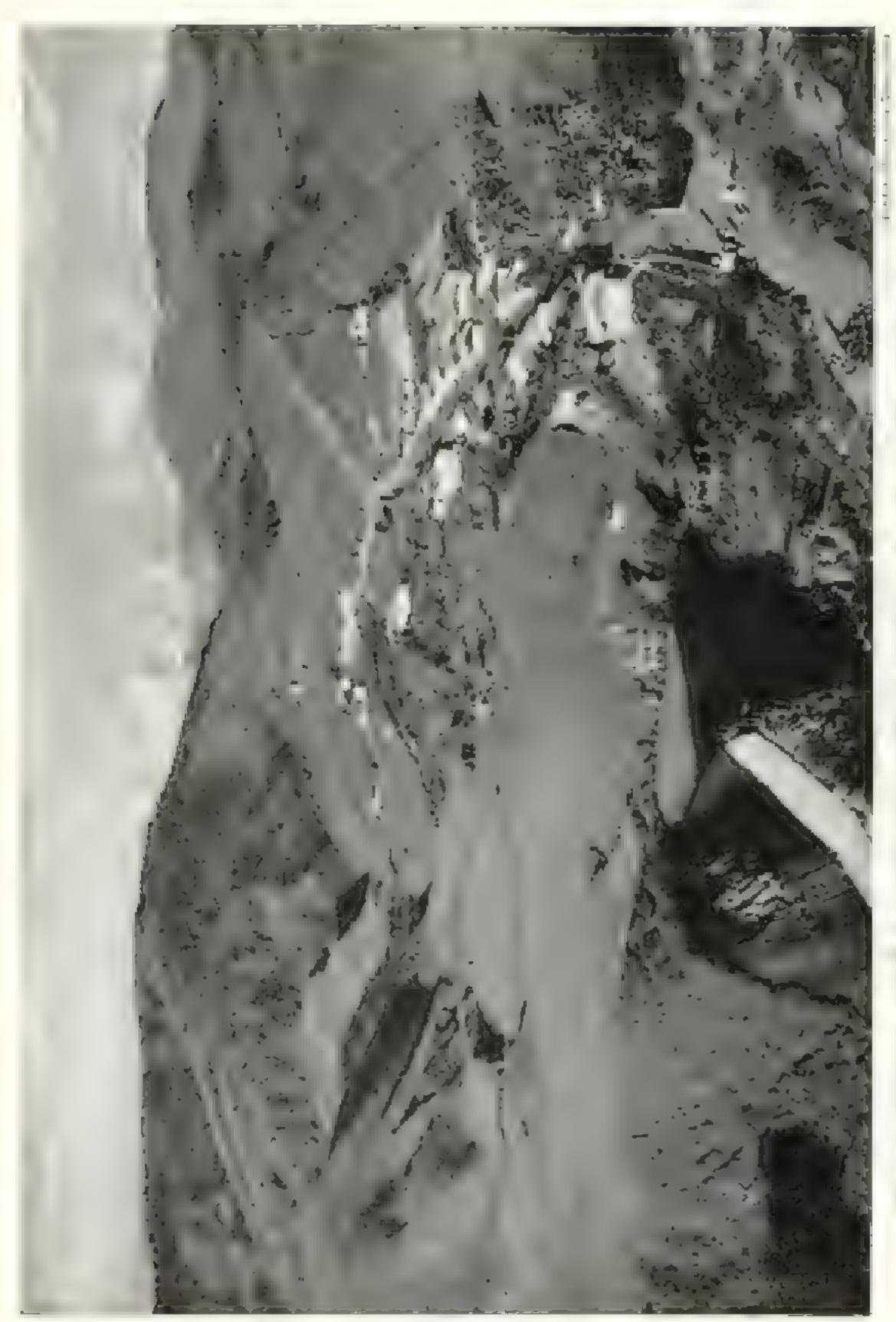
"See ' Haunds of the Caribbean Comains," by Nell Ray Clarke, Nariowal Godensenie, Magazine, Frienary, 1912.



Perhass This Old Carrie Fired in Sn. Francis Dr. ke's Rusing Stips



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Your Society Observes Eclipse in Brazil

N MAY 23, 1947, from a camp in the high reliang country of the interior of southern Brazil, an expedition of the National Geographic Society will observe for the seventh time a total eclipse of the san.

This expedition is a joint undertaking of your Society and the United States Army Air Forces and is already established near the lines: it is a line of the lines of the lines.

Note that I have a finite or of the Natural Burroap of 14 scientists from the Natural Burreau of Standards, Yorkes Observatory, Lick Observatory, Georgetown University Observatory, Barrol Research Foundation, G. S. Naval Research Laboratory, and Army A. Forces.

Photographs of the celline from a 18-17 homber flying at 30,000 feet will be taken by Army Air Forces photographers. They also will attempt to photograph the moon's shadow as it pages arrows the ground below.

brest Television of Eclipse

This eclipse will be the first in history to be televised. Motion pictures of the eclipse will be flown immediately to the United States and sent out over to evision channels within 48 hours after the event

In addition, the eclipse will be described as it takes place in a special broadcast by short-wave radio. The eclipse will not be visible in the United States.

The period of totality will be 3 minutes and 48 securits at Bocaniva, from 9:34.8 to 9:38.6 a.m. local time. This wak correspond to 7:34.8 to 7:38.6 a.m. Eastern Standard Time, since eastern Brazil is in the second time zone east of New York.

An important feature of the expedition's program will be a check on the validity of the Hirstein theory of relativity, with as strange concepts that space is curved and that everything has a fearth cinematum—time.

This check will be made by photographing certain stars that will be visible near the sunduring the chilpse. If the falustein theory is correct, the light rays coming from these stars will be slightly bent by the gravitational pull of the sun as they pass by it. This will cause the star images on the photographic plates to be slightly displaced from their actual positions.

Comparing these pictures with others taken of the same stars six n onths later will reveal whether this bending took place.

Hehavior of the ionosphere, the radioreflecting layer high above the earth, will be studied during the eclipse. The imposphere is composed of several layers of air which are lonized, or made electrically conducting, by altraviolet light and particles from the stat.

Using radio impulses as prolong tools to reach up from 50 to 250 miles about the scientists will investigate what happens to the ionosphere when these radiations from the san are cut off anding the eclipse

Terrifically hot gases of the sun's chromosphere, just above its surface, and the curona
the thin, nebulous envelope of gas surrouncing
the sun far cut in space, will be investigated
with spectrographs. These instruments break
up light into its various wave lengths, which
teveal what elements are present in these gases
and how they are affected by the sun's intense
beat.

A Much-traveled Camera

The sum's corana will be photographed in black and white and in other with a much-trave ed camera which previous y has photographed eclipses in Brazil, Russia, and on Cartan Island in the Pacific."

Measurements of the result times of the four contacts," the times when the nor in begins to cover the sun, when it completely covers it, when the sun begins to emerge from behind the moon, and when the sun completely emerges, will be carried out.

These will provide a check on the movements of the sun, moon, and earth in relation to one another and to the stars, upon which are based our measurements of time

An elaborate program of meter calogical observations, before, turing, and after the eclipse, to help determine whether it has any effect on the weather, will be carried out by the Army Air Forces.

These tain also will be used in the calculations of the benching of starlight in the relativity experiment.

Whether or not the cells so has any effect on the physicinus co-alic rays that (all continually upon the earth from a ster space will be investigated. Observations to determine how the intensity of creams rays varies with latatude and altitude also will be made.

*See, to the National Grossenic Missauer: "Observing a Total Eclipse of the San," by Paul A McNally, November, 1932; "Photographing the Ealipse of 1842 from the A.t." by Capt. Albert W. Sactons, November 1932; "Eclipse Assentines on a Levert 1967; "Naturely My at Discussion Specially." by S. A. Mitchell, September, 1937, and "Chiervine on Eclipse in Assetic Russia," by Irving C. conduct between, 1937.



1 12 1 1 1

Brother Newbolandy Nobbles a Not on the Hand of a New Agre primee. The blanc' control and its made blends with Mr. Wilkers and a 11 per control of the part of the author.



Beaudial, 'Wigs' Chipseralched, Laps for Her Companion's Right Shoulder
Two as a purcounty of the property of the canada many first the no mall leads to a target and the control of the canada many first the no mall leads to a target and the canada many first the no mall leads to a target and the canada control of the canada many first the no mall leads to a target and the canada control of the

"Flying" Squirrels, Nature's Gliders

By ERNEST P. WALKER

Arthur Director, National Zoological Park, Southerman Institution, Washington, D. C.

beech tree. The top was a tend song with many woodpecker to less in it. When I got up to the snog I pounded it with my fet. Immediately, little gray faces with hig eyes peere i out of almost every one of the woodpecker holes for an instant. Then there were a scurry and a shower as between six and a dozen "flying" squirrely leaped out in all directions and glider to adjacent trees.

As I think back, the incident reminds me somewhat of the shower effect produced by lawn sprinklers. This glimpse was far to return most people ever see of the so-called

tlying squirrels.

Not until I became intimately acquainted with them did I fully understand the meaning of "gay abandon." These delicate and gentle little creatures are sprightly in their movements and are attractive and locable.

They are highly specialized little squirrels, and placed distributed to the object of the region in North America.* Other flying squirrels, both much larger and smaller and closely or distribly related to them, inhabit busope, Asia, and western Africa,

Glider "Wings" of Membrane

The flying squirrel of the eastern United States weighs about 3½ ounces. Head and body are about 5 inches long and the tail about 4 highes. Coloration above ranges from grayish buff to dark gray or state. The under side of the head, body, and glosing membrane is white, except for delicate buff on the flanks.

The flying squirrel's for is fine and soft Its eyes are large, and its tail is flattened and shaped much like a feather. Arms and legs are very long, but do not appear so because they are enclosed in the large, loose sian of the body and gaiding membrane (page 672).

At each wrist is a slender cartilege. It projects outward when the arm is extended and thereby extends the mendrane just back

of the hands (page 668).

The small creature has the appointment, when sitting, of being very fat or of wearing clothes that are much too large for it. Actually, when it extends its arms forward and

*North American flyibit squirrels comprise two distical groups—the smaller species (Grancesty tolors) at the eastern United States and parts of Slexaso, and a larger species (G. sobrosier) accupying tenhered are noted of the western United States and Canona with one form comment late positions. New England and berder States along the Greet Lakes. out and its hind less backward and out, it stretches the membrane so that its body takes on almost a square form and is flat. We then see that it is slender and deligate in build.

Flying squitrels are so strictly noctural that many people do not know of their existence, even in regions where they are common. Few have seen them and very few indeed have observed their behavior in the wild. Occasionally they appear at a bird feed ag shelf.

Sometimes, when a tree is felled, they are found living in a hale in its truck or in one of the limbs. Again, they may awell in a bird box or nest in an attic, where their activity at night annays the hamon occapants of the harse.

Sometimes they come down a chimney into a family's living quarters and meet a sad (ate at the hands of people who do not realize what gentle, inoffensive creatures they are.

Seek Lofty Home Sites

Usually fiving squirrels live among trees, making their nests in hollow limbs, old wood-pecker holes, or other sheaters high above the around. Their movements are not limited to climbing up and down the trees or merely leaping between objects, for their remarkable form gives them power to glide king distances.

Glales of more than 50 yards have been

remindad.

Fo take off, they seek an elevated point, then leap out into space. Spreading their arms and legs, they take on the form of miniature gliders and steer themselves by taking or lowering their arms to warp their flattened forms. Perhaps the tail also plays some part in steering. Certainly it nots as a stabilizer and assists in making the upward swing

When approaching a kinding, usually in a tree or upon some other tall object, they swing slightly upward to theck their speed and being their long arms and legs forward as shock absorbers. Upon alleiting, they dust around to the other side of the tree or limb, probably as a prerantion to escape any enemy that asight be following them.

They feed largely on muts, which they gather and store in their nests or wherever they find a cavity large on righ to hold a nut securely.

Intimate observations of the ine squirrels in captivity, even when they have a great deal of freedom, do not take the place of those in the wild, but many accounte deductions may be made by each close study.



"Look Before You Leap, Brother"

If we call tends there has been abute his ever up a pageaution in the landing place in his event. These photographs were trade with electric-flash apparetus at 7 5000 of a second

I had known flying squirrels since boybood and had often told people what charming pets they become, but I had not taised any until slightly more than two years ago. Then two of my zoological friends, Mr. and Mrs. John H. Hamlett, took two babies of four front a nest when they were three days old. They cared for them until they were nearly five months old, when they were going to travel.

By this time the young were fully grown and had developed their remarkable apility in larging, gaiding, and scurzying over surfaces. They had become so thereughly domesticated that they had no fear of human beings

As Hauschald Pets

Now they seek human companionship at every apportunity and are as curious and free with strangers as the friendliest dog. They sleep all way in the nest lox in their cage, but at the evening they begin to awaken.

they groom themselves and six and dream, sometimes for half an hour, just as we would ake to do in the morning. When they are fully awake they dash about in their case waiting to be released.

They do not like daylight, or normal lighting in a room at night, and they quickly seek

a dark spet or one with sundned light, I am certain that lighting which is normal for barrans makes many small mananuls acutely an infortable

A dim blue light is not objectionable to my dying squirrels, at 1 am trying to become more tentumal

When the cage is opened they leap to their human companion and dash about him, exploring, going over and inside his cont or shirt and up his trouser legs. Generally they make as thorough an exploration as they would of a tree in their pative bannes.

Some of my friends suddenly develop remarkable agility when the squirrels get inside their clothes. To the squirrels it is almost as good as stampering about in a hollow treet

When they climb on clothing or press their soft for against one's skin, their presence is only disconcerting. But when they try to climb on bare skin, their tiny tredle-sharp claws tickle and are uncomfortable.

My square s' extreme fauthess for humans made it easy to induce them to leap to me from a distance. They leap many times in succession before becoming tired of the game, and then, after a short rest, they will resume.

With this enthusiasm on their part, it was not very hard to photograph them while they



In Mids, I de. the Squirrel Can Turn to Right or Left

The court construction of the condense fill makes the major with the companies of the condense for the condense of the companies of the compan

were hopin and follow it tried this with redinary plants fast. Inflict and a categoristic shutter operating at 1 a hoping partness, but the action were contact all of them have not a given a reserver.

When I began using electric-flash apparatus producing a light which glowed with intense brilliance for from . 5000 to 1 20,000 of a second. I obtained satisfactory results. The globing pictures which accompany this article was taken with such equipment and are, so as I know, the first toals which show is ing squirely in action (pages 60%, 604, 604, 600).

When I are a pirrels to glide to me I assaily par my chest with my hand as a shoul. They denot invariably land on my hand or the spot I have patted

By inducating to them different landing that they are very accurate to reading their continuous. Bly squire and the beseven in lacking before they leap, a characteristic which a very different from that of pocket mice and kunsame rate. I are used which are on the ground, oft a leavent of the ring.

In the caking off on an unfamiliar leap, the

squirrels lean far to one side, then far to the other, and finally rise as high as they can use their arms, closely examining the source of the Personal Inc. And they have a positive and the source of the contract of the source of the contract of the con

Commissions of Nins and Figure

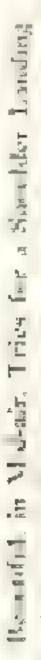
My beta ar bond of a wide variety of mits, home notices first choice. They also the appropriate another accounts, buelled and black walnuts, thestonia, and pranats. Access doubtless constitute the greater portion of their food in the wakit

I offer them many kinds of fruit. Occa--iorally they est tasplatties blackberries, c multicries, but they are quickly satisfied. They are indifferent to almost all vegetables and leaves, although at three they consume a Hade of grass, a leaf of clover, a tree leaf, or a bite or two of carrot

They are rather fond of the bulls of a few trees, particularly during the winter and early pring, so I fre to supply them with what appears to be their favorite spring salad.

Few Lymen realize the extent to which reducts est meat. In the wild, most of their most diet probably is insects, either in the adult form or in the level states.





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Mr W. E. and bottom and the a Christ State from Urpy et all it many the many from the county of a country



. Teapeye, Wilsken are a second pair of eyes for flying aquities and other am 11 stretch in min hand each eye to the contract of the contract 1 1 I " THE LAND THE BENEFORD TO THE STATE OF TH



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"Upside Dones" Shot of Beautiful's Glide Source Widespread "Wings" and Releged [For]

When it has been a formable part and having possible and had proved the property of the property of the part of the property of the part of the part

I have observered that flying squareds enjoy amashoppers, the seventeen-year lucast, modus, interchas and a few other insects I have effected them.

White grubs, so plentiful in access, they and particularly deliches and often select wormy access metaly for the sake of opening the nut to get the grub. No doubt wild equirely consume wast numbers of these and other ir sects.

Some Nuts Hard to Crack

Perans are 10 at the hardest mile may pets can open. Frequently, while they may be very hungry for peran ment, they do not attempt to open the nut, apparently aware that t is too bard for their tiny teeth. At other times they will work on a peran at intervals for several days and finally find a weak place in the shell, through which they cut.

Handling a pecan is a big problem for such a little fellow. It is much as if a person were to try to carry and ext a large watermelou without resorting to equipment or force to

break it.

A fixing squirrel's first act upon coming upon a pecan is to grasp it in both han Is and turn it until the point, or blussom end, faces him. Then he works the nut into so him position that he can cut a slight groove and notch in the two slightly flattened depressed areas on either side of the tip of the nut. This requires four or five quick hites (page 670).

Gripping the groove and notch in his teeth be can corry the nut by the small end.

To get the ment from a basel act, the squit releast to small round hole in the shell, usually near the rough stem end of the nut, and then cuts the ment into bits and removes it form the shell with his teeth or tongue, or both The domnice of Furope open f, berts similarly

My pets cache nuts and other food in many different locations—on the top of a window tasing, in the folds of a shower curtain, in my pockets, in the tops of my socks, inside my collar, on my arm, or in the angle of my elbow. They search out locations and tamp the nuts into place with their teeth.

They use their long, slender hands to reach for objects too far away to pick up with their teeth, and to handle must and other ford,

They are accurate and critispous.

Their hands and feet are remarkably strong to enable them to check momentum from leaps and ploles and to hung, sometimes, by a single freger or toe

They regularly bong head downward by their trees, using their hands to hold food. I believe they sometimes sleep langing head

distincted. I have seen them sleep hanging

by their fancers, head up.

Almost any hole, crevire, or track that is as much as 1½ inches in themselve will provide relace for flying squirrels. The spring I have ing shortage in Washington, D. C., where very few old trees with cavities remain, forces both flying squirrels and gray squirrels to seek shelter in attics of dwellings.

Apparently some of the human occupants of the haddings do not appreciate such delight-fai neighbors, for in the office of the National Zoological Park we receive many questions about ways to eliminate them. I usually suggest putting plenty of nest boxes in trees.

Insatiable curiosity sometimes gets them into traps set for other animals, to the disgust of the trapper and to their own sorrow.

My pets have never bitten my hand severely enough to draw blood. Occasionally they will set their teeth on my finger and pinch rently in protest against my picking them up or disturbing them when they wish to do something else; but ordinarily it is not necessary to pick them up.

They leap to me and try to stay with me as long as they can, and they especialty enjoy going into my pocket to explore or to sleep. My little nucle often takes a notion that he

whites to sleep la my prockets,

They show affection in many ways. One will stand on my shoulder and gently bite the rim of my ear or put his nose into my car and spiff rapidly. This seems to be a way for

many unimals to express affection

Afnest all animals show after the and companiouslup by grooming their companion's cont. My pets do this to each other and frequently to me, using their hands, teeth, and tongue. Once Beautiful, the female, began cutting gently with her teeth at a rough spot

on the skin of my ball head"

While still stuggish upon arising from sleep in the second of the strong or sub-there my bunds. As I stroke them, or sub-them behind the cars and on the cheeks and chin, they turn their heads to make those parts cas'ly accessible. They also enjoy buying me rub their backs along the spine, and offer my objection when I lift their gliding membranes or manipulate their tails.

Sure-footed and Agile

Later, when they are thoroughly awake, they are so notive that they do not care to sit

quietly so long.

Their extremely long arms and long legs are used to good effect when climbing. It is incredible how rapidly they can climb and how sure-footed they are on smooth surfaces. They



"I Cannot Carry Forests on My Buck, Neither Can You Crica a Nac"

Institute the parameters record the relate of "Lit be Brag" to the ment and in Line are it is the first the parameters with ment facilities of the parameters with ment facilities of the parameters with ment facilities of the parameters are the parameters and the parameters are t

run up or down the polished chromium-plated legs of my camera tripod by gripping it tathe than by clinging with their claws.

Iterasionally they encounter a surface so large and smooth that they cannot get a surface on it, and then they she to the floor or land on another surface. This obviously embarrasses and surprises them, as their experience fails to take into account any surface to which they exenut cling

In the r enthusiastic exercises they often levelop a complex rotatine of running, leaping, and charleng in a single maneuver, which may require only a few seconds to execute but will be repeated without intermission for many minutes—perhaps almost an hour at a time

One exercise level continue in an inverted position on the under side of a chremium-stated shower contain and

They prefer the highest spot they can find. They apparently fear resting on the floor or ground more than membership.

When danger the atens—sudden movement, an unknown sound, of a sitting at intal of person—they assatly hap to me or take refuge in the highest nook or crevice they can find, from which they peer out to learn the cause of danger

Crumplar of a ser alone almost all small.

mammals, inch dang flying ou rehaps it suggests the restling which a dangerous animal might make in dry leases

No doubt many animals looking is to, or saithing in, a hole occupied by flying squirrels beve but their eyes or ness scratched. Even my pets strike with their bands with incredible speed when one ventures to put a finger into their nest los.

Until a person is accepted by the aquirrels as a friend, or as a bit of the scenery, they astally are silent. But when at ease they utter a low chackling note to express pleasure. Sharp thucks connote displeasure, as do sharp chiral preases at each other. They emit barked and to those of goly squirrels but higher pitched and not so lead, if danger threatens. When annoyed they stamp the rifeet

After our pair had lived with us for always seven months I suspected that Beautiful was noing to have young. I became certain of it when she started to pluck the fits from around her eight nipples. Meven days later she gave birth to two baloes, which were naked, pink, and bland, and weighed 88 grains each.

she was an ideal mother and never left the little ones for more than a few moments until they were large enough to crawl out of the nest. I weighed them and task photographs



"Churk, Churk! I Much Prefer to Be on the Inside Looking Ou "

Favoried to be the substitution and tenant. I more has then explained the tree. Lively scenes of a more than the section and when Brother and Benutlini cont. I then expeditions undernearly the richting of Mr. W.

and notes every few days from the day they were born until they were practically the size of their patents

At the age of three days they becam to show distinct bluish tones on their backs—hair shows with a think a sport white branch they were naked a upt for a sparse grow half white bairs.

As the hair on the hold new longer, the electrical gradually became lighter; at the same time the white for of the ander parts grew longer and distant.

The little ose were low rockets by ne The mother nursed them notil they were fifty six days old, and they tried to nurse occasionally for two weeks more

"Baby Book" for Twins

Two women in a gett descendanged significant looks when I made inquery for cards appeared by the beth of twins. The care were sent to friends who knew our family of little folk.

When he has a were about four months.

I they liew to be all with a friend of mine
to a de their hume with her. At last reports
they were doing well as much beloved guests.

Finds I have be ok fully west

Saked, blind purk, Weil's as graces, the Traces of coloration on top of head in it. The traces of coloration on top of head in it. The traces are resulting. Value to be a like to the traces of the t

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I is 'ver for and 50 grams. Upper parts fully haired. Unfer parts show fine while brite scandy distributed except on chin. Eyes not yet open, but fine black. Tail and less black.

- V W tall the little wave with

Sanda Bar- on partitions part 12

hared bereath, white and creams

124 day: Wright 135 oa and 50 erous. Sill her, but beginning to nibble at solid food the character three beautiful, for mother, sometimes carees three back toto. It is when she thinks they are too. It is brother the care and they are too.





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"How's the Article Coming, Mr. Walker?" the Pet Squirrel Seems to Say

Toward, has standed any on a rice that to watch the author work is the manuscript and to kee the taken for a tribit. Flying square to be the tool growth for a tribit. Flying square to be the tool growth for a tribit of the first square to be a tribit.

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with day. Weight 2 oz. had 29 grams.

both day. This evening, for the first time since has a contract to the first time since the both and the first time since the both and the first time since the first time since the first time to the first time since the

We can will the pets are at court, and I described by the history to me. If they are his not contain, I place my body, rear tion of the some of my body, rear tion of the state of the step opto it.

the tenter they but we have the store and the repeated. It is not assembly for

themes they are not attempting to excur-

Cetal a I can rail them to tee by tubbing or raiting nots together in my band, or strat hing with my ingermail on a book or piece of wood to make a sound fixe a squarely grawing on a rat. Sometimes they come to me when I say "Nuts." It may be a coincitive when I say "Nuts." It may be a coincitive in the control of the c

Having lived with golden humsters (Metacricelus aurutus) en almost as intimute terms as I have with flying quirrels, I have observed the countrie of the in the countries of the countries two lattly specifical arion is

Har- we are short way, below the small funed lattle midents, somewhat like small guinea pigs. Their coat is a benutiful goden thrown allowe and an immaculate white be neath. They are almost tailless

Most of their lives are spent on the ground or a hurrows, and with these to restrial habits are associated to be larger or or marked contrast to those of the flying squirrels

Such differences accompany high specialisa, tout of animals for their puriouslar modes or life. But interest in animal study is beightened by a imparing and contracting the modes of life and variate its associated with the specialisation and adaptation of animals.

Lundy, Treasure Island of Birds

By Col. P. T. Ethigron

With Illustracions from Photographs by J. Atlan Cash

ABOUT a dozen unles off the coust of north Devon, looming out of the Atlantic, is the socitary Island of Lundy, strangest and perhaps least known of the islands of Britain. This strategic senting commands the shipping lane from Eristol and the west country and has a history as remarkic and swashbuckling as anything in Stevenson's Treasure Island.

Here is the island of the storybroks, where you land in a sunny cove with no sounds save the swish of oars against the bow and the

cries of hundreds of sen birds.

Here is a beach which has figured vividly in many a story; this is the is and of adventure, with an ancient tower, above the cove, which must have been a pirate's lookent. Below it are caves where treasure could be buried and the pirate might count his pieces of eight, with pistal and cutlass by his side.

As one books out, there is a singularly fine senscape—waters of fris blue, dotted along the share with splashes of amber from the seasone.

Wictin .

A Floral Revue

Strangely beautiful is this island with its little glens and ravines painted by Nature's ewn hand. Here, before the birds on the malpland have heralded the attival of spring, having has already said it with flowers. As the months on on, the floral revue continues, for the island specializes in wild dowers.

I crossed to Lundy in a mayal patrol hoat from Baleford and was landed in the sunny southeast cove. With me were effects and men of the United States Army in Europe, for the overload of Lundy has always welcomed our transattancie cousins and affect. A thousand birds curved across the clouds and cried out at our intrusion (map, page 679).

We climbed up and up by a tocky path flanked by thododendran, veronica, hydrance, and wild flowers to the "king's" trace than a hundred years ago, a 12-room house equipped on up-to-date bace. Most of the windows lok down the path and out over the Bristol Channel to the north Devan coast.

Here lives Mr. Maron Coles Harman, the only king outside of topalty in the British Isles, a staunch believer in private enterprise and ownership, and with the individual taste for Liberty so dear to Englishmen. He

is a vigorous personality, a good taconteur, and owes allegimes only to King George.

Lundy has been privately owned throughout historical times, and various charters and letters of authority have been granted it by

kings of backand.

In the enrilest recorded period of its story the island is found in the possession of the Montmorency family, the Irish and English branches of which were called De Marisco. The first to come to Lundy was Sir Jordan de Marisco, about 1150, and this notations family, members of which frequently occur in the annals of England as filling important offices under the Crown, ruled over Lundy for about 135 years.

Unfortunately, we cannot be certain of dates, as the early records of Landy, which apparently were kept at Cleave Abbey on the mainland, were sent to London, where they were distroyed in the Great Fire of 1660.

Because of these femial characts, Lundy boasts sovereign rights and semitoval prewige. Its overload has rights and privileges which

seund strunge to modern ears.

he wishes from his domain, and can had any rarge free of restraining customs or excise. He can deny anyone the right to had, and he controls all fishing and marine catches for a specified distance offshore. No tax of any hind is levied, and fishermen are not allowed without permission

Resides being an overland by right of tenure of this Lilipottan strip of heather- and fern-covered land, he possesses the hard asset of some of the fanest granite in the world, used in early Victoria Embankment along the Thomas.

Constit S tows Lieven People

Human habitations are limited on Lundy—a house, a few cuttages, and the lighthouses. There are three lighthouses, but one of these is now used as a wireless station and can obtain advance a stice of Atlantic weather. Only one store, where certain foods may be bought, serves the island.

A Lumby directory would contain the names of once eleven people, six of these being

eighthouse men.

Mr. Harman told me how, besides weather forecasts, this island was responsible for introducing rabbits into tireat lititain.



Landy's Backingham Palace to an Issue at 11 love range & the

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Mystery of the Skeletons

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The Peet of Condines Have Climbed the Steep Approach to Lindy's Task-man tan Lop-

Hone 1810 it was a to the first palls, leavily surroutly do not with men but and drug but A respond for a surely a management set to the first black to and the first business of the first landon cover to expect the palls of the

the end of the stain as Monague et Monague et.

to those days of a conce the Lond of Londy bad to make his bone at fortress in which he could shot himself up and he safe from the core he built a nighty cast. It has a constitute tower, deep ditches, and a manybridge, with a core shots for windows in the thick are a walls, while for most it enjoyed the transition of claves. The class first explicit enjoyed the

At one time Marisco Castle might well have attracted the attention of the United Nations or any adolescent league of law and order, for from its turretest feetness came tail after rait acainst the mainland not passing metalist to.

The aggress of retremed to the safety of a lude-out with walls the feet thick and with me contagned on the side, which has specified with the potent over which a research to were hursed to the tooks below.

Sir Jordan de Marisco feli faul of Henry II, o an wished to give Landy, valuable for both position and fisheries, to the Knights Templies. The King was defied by the local six in a who went even further. He started in that we passed to show his indignation and received lence, and Henry could do hing about it

A Fend Between Kings

Richard the Lionhearted was too busy with the half Land and crusading to a story pro- spring by the "Lundy mosque of half when his brother John relened in a start of feed between the Island King and to half head was tip world.

John tried is lest to ever the Marieurs from their inheritate, but, secure in their contributed beyond be defiant and of him there was no but hings business besides his own. "I at out, ordered the impetuous to, "tome and get us out," was the toply.





Limits's Exem Property of Public Postone for Spray Collegans Incompagne

But some 50 years later the De Mariscos went too for and took part in the attempted marder of Henry III. The King was avenued and the island reclared forfait to the Crown. For nearly 40 years myst governors held in theck the aggressive tendencies of the islanders. Under the redoubtable Edward I, the king who believed in the rule of law to order his doings, Landy was restored to royal favor.

The ill-fated Edward II tried to escape the wrath of his rebellious barons by fleeing there in 1326, but he was betrayed by contrary winds and driven ashore on the Welsh coast. From here his wanderings subsequently led him to Berkeley Castle, where he was destined to die a harmble death in the grim dangeous of that stronghold.

Historic Island Characters

In the Civil War of Stuart days a new character appeared upon the scene in the person of Thomas Bushel, who was working the silver mates on the mainland of Devent Bushel had been appointed to govern the strategic island for Charles I.

This he did by refortifying the old castle with barteries until, bared with idleness, he turned, like his predecessers, to plandering shipping.

Lundy was the last place in the British Isles to be surrendered to the Purliment mans, and then only with the written consent of Charles I

Thomas Bushel passed on, and in the fullness of time came another notorious character, Thomas Benson, a link with America by reason of his contract with the government of that day to transport convicts to Maryland and Virginia.

Benson was wily. The contract stipulated that he should convey the convicts overseas, and this he did by taking them to Lundy, where they were set to lorded labor and construction works on the island (page 657). He took to freebooting and became one of the most notorious snaugglers in the west country

Beason is supposed to have collected a fortune and hidden it in a case below the castle, but the treasure has never been uneastled by search parties (page 684). He treated outsiders with complete contempt and fired on all ships which approached the island with at dipping their colors.

Finally Benson Latched a plot to claim insurance on a ship which he intended to scuttle, after having lamed the cargo in the dead of night. When his Landy escapade was discovered, he fled to Portugal.

For any steamers still shell or unifer the east,



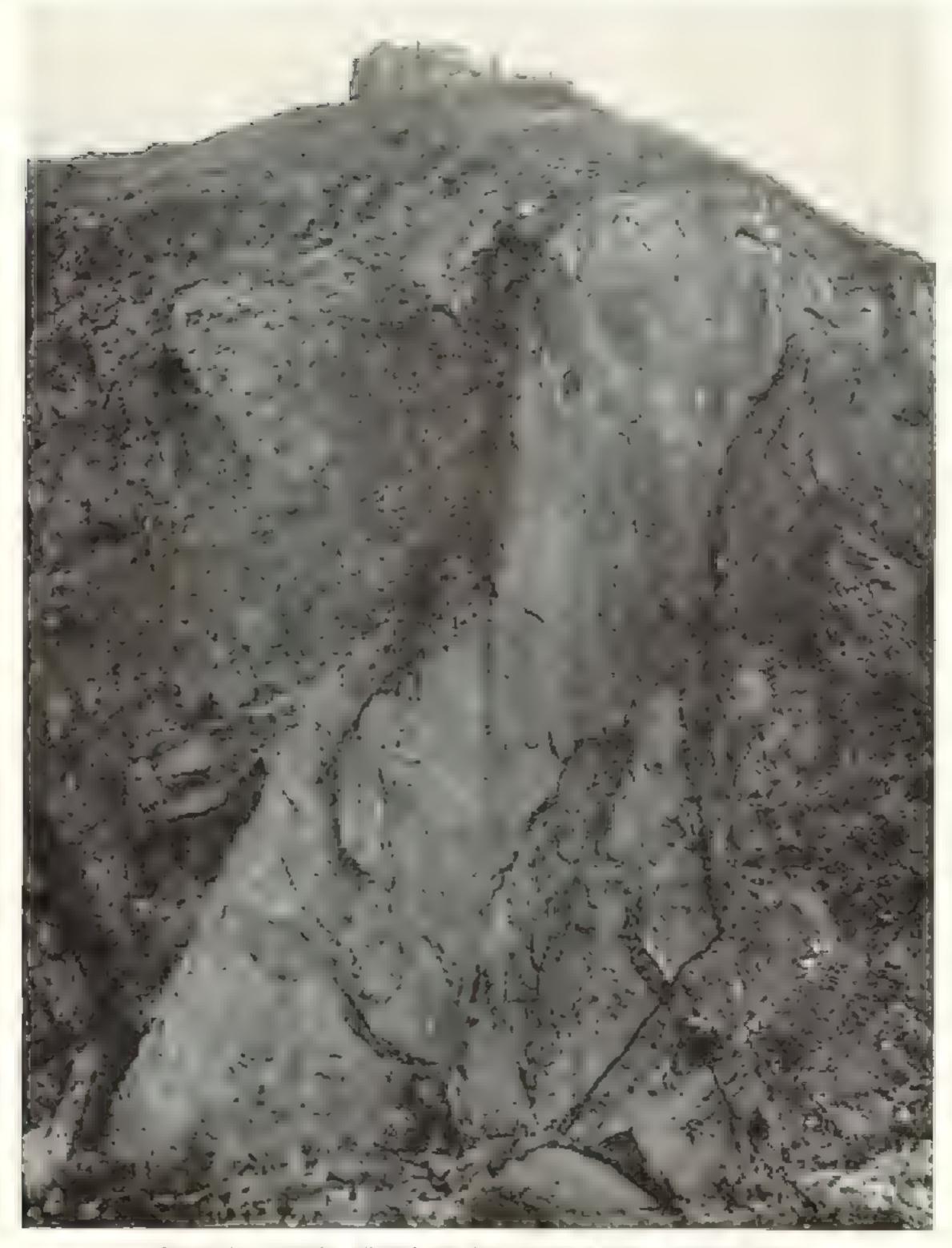
Lonely Sentinul of Bristol Channel

Devote coast, the command granute block nome 400 feet above the pounding sea. Its plateau top, outsided along, measures some three talks long, average built a price water, and covers about 1.1 to acres.

or lee, side of Lundy. They are no longer cannonaged by Denson and his round shot, but find rest from the buffeting of the gales.

The western shore is moky and precipitous, hattered by Atlantic waves with a 2,000-mile punch behind them.

By way of a change from homeninde adventures and privateers, there came in 1525 Turkish corsairs from the Muidle East, who stermed the island under the pose of Britain



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Lundy's Agent Keeps a Watchful Eye on Approaching Ships

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A "Dead" Skipper Comes to Late

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Birds Lank Landy with Distant Lands

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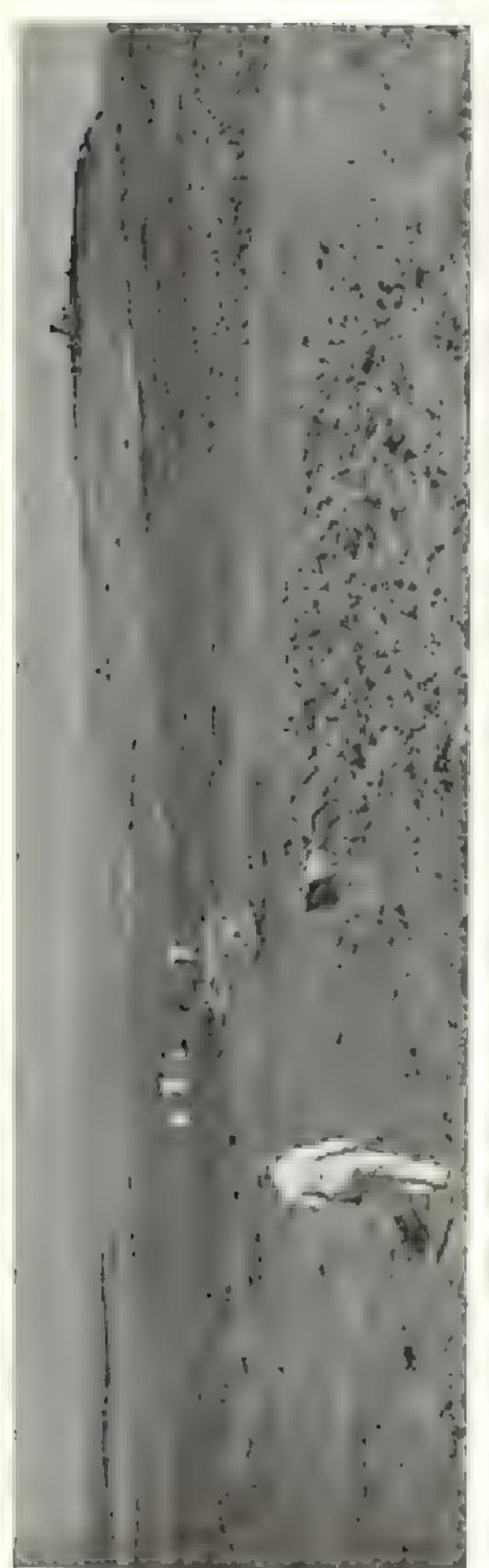


Bearin's Cave Recally an Island Lord Where Notonicus Decels Still Live in Londy History of the February 10 to 10 t



Muzzle-loading, 18th-century Guns Still Bristle from the Face of Lundy's Westwell

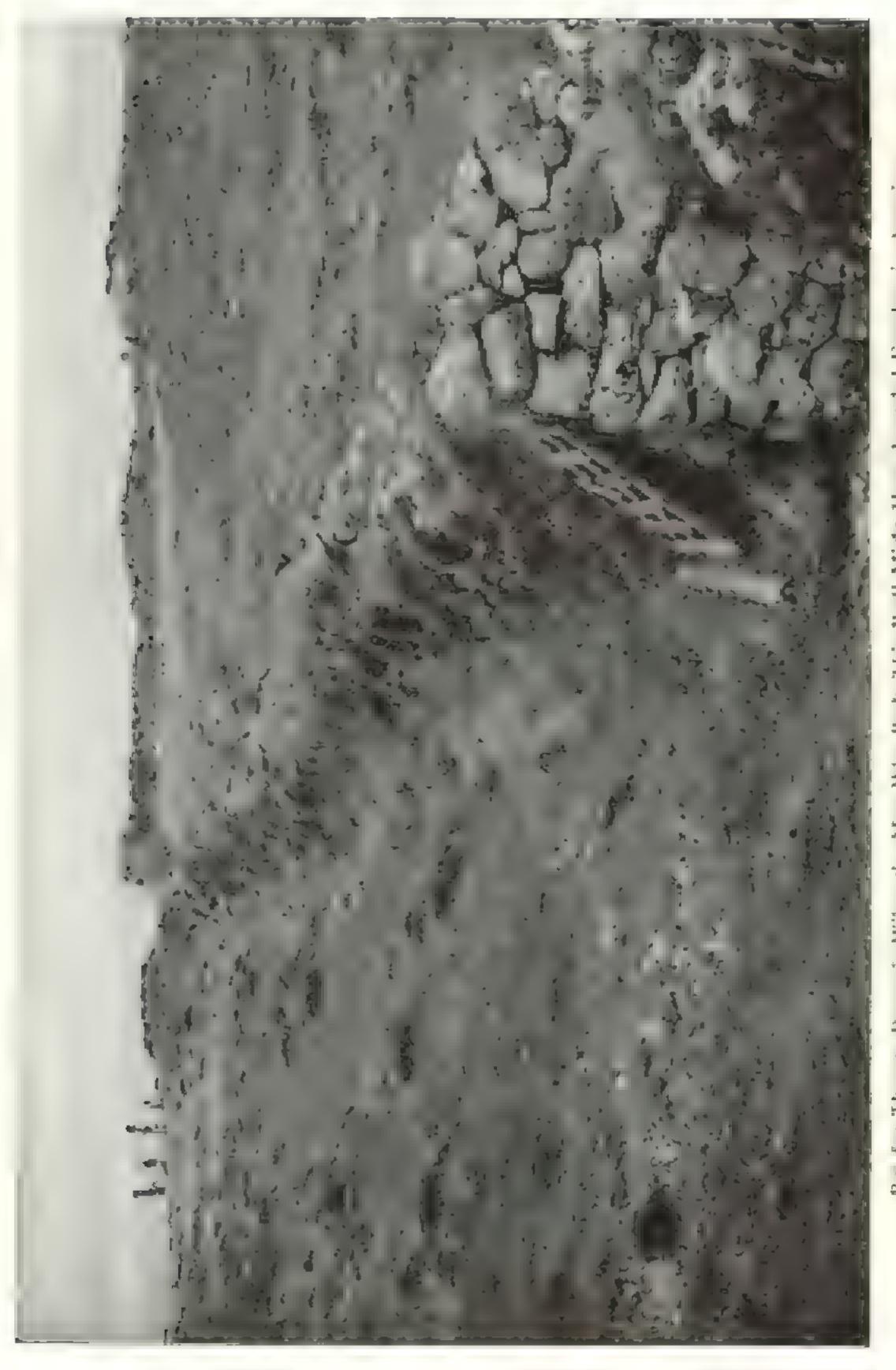
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Loady Ponies Hold a Tête-êstête Aeross a 200-year-old Wall

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Foghorn Seared Away the Gannet

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Strome Rack Fready Loss the "Rocking Stone, Gird Landy & Chife.

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righty devices as he are been possible of their constant to the financial of their own harrows and severe their income and its some case and or with the will exceed the and recent financial of their own leading off it. On Landy some pulling place buttons, and to save lain they often turn pattits out of their quarters.

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at I have the In the crowded nesting as an your am find with efforthess ease the grassy to to all the berring and black-banked sulfs each with its mottied about of five browns are, or the decayed to the first of a serious by the dainty kitting in

Laboratory for Bird Study

You can become friendly with the Pickwalling puffin. You can wat hothe governor various guillemnts and community. You can guess at the divloc street of the falcon or admire the graceful circles cut by the mothlate but said in the upper as where the light-



Durty Weather in Bristol Channel Sens Ships Sourring to Landy's Cove

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I am shelf and corner of grag and rock are content, feathered population. I in the ly interfered, primitive that how there are note with in the sea than the sea

On the western shore of the island, where are an enweed clutches the rocks and no safe larger is possible. I found commes of puting with majorially in thousands.

In the trees which surpound the owner's

house at Mill Combe, and in the old cast cwalls and the massive keep, the seal sear slopally broads and blacks among must built Nature's battlements.

I watched the successful poaching of blacked gulls including in what many producing the war in Britain would be a be to do-egg bitang, on a large and a see h. i scale.

Wild Ponies and Japanese Deer

In the center of Landy is a small line, which in summer becomes a draed-up provide land, surrounded on every side by that and heather. Here the semiwald pun es are from the latter and the content of the state of the content of the

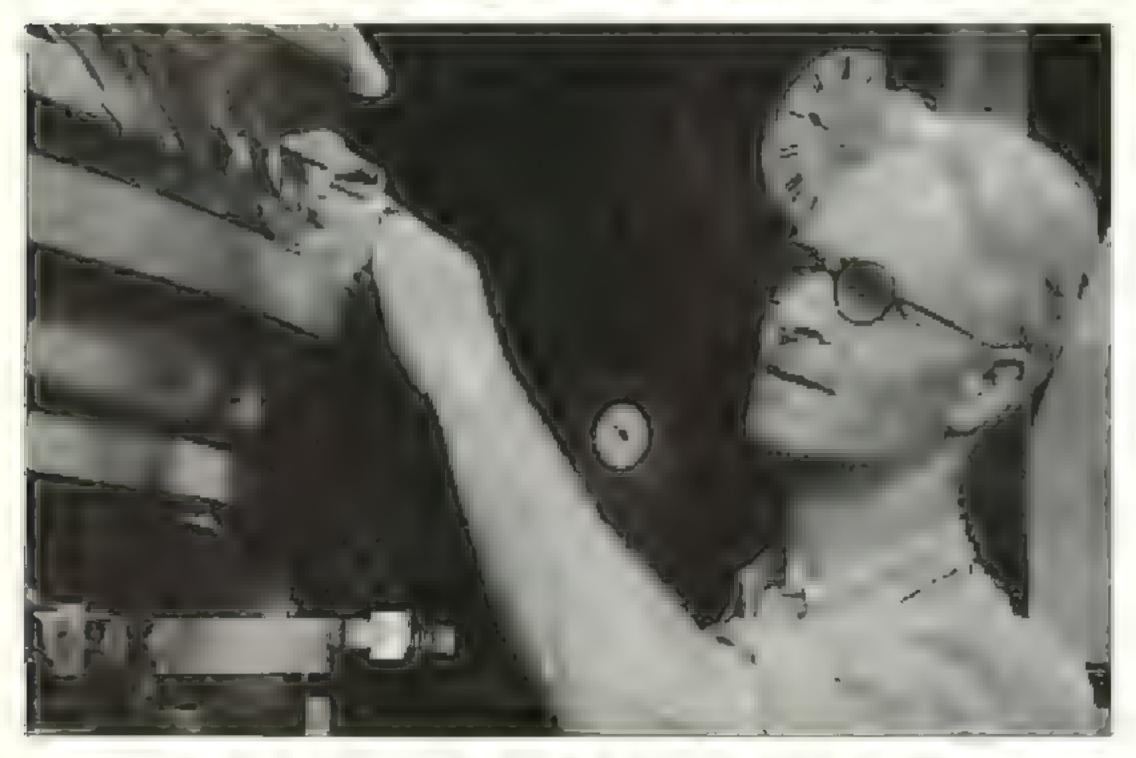
This is also the hunt of a few Japanese leer, imported years ago, and some wild red deer from Esmoor. How the latter come be marooned no one seems to know. The



"He Difficulty of Getting to Lundy Was Proceeded Only by the Difficulty of Getting Away" as reported a view on the color of the reserve to the first of the process of the



Freening Cormorants Annex Gull Rock off Lundy - Lastern Chilis



For 50 Years South Light His Shed Its Gleam Across the Wave

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Agont and Shepherd Meet on a Lonely Lundy Moor

Probletone remains, the local tweet, and recomb of severa williges indicate a same population in the past. But in the last to praise the clang's population in the past. But in the last to present the clang's population in two tared (2. During the war, ninbombed Lucity websited American structures on cover.

where the feets and brackes reach. Theight of four and five feet and brackes, it is a considerable by side with hydrangers.

Where Wild Gosts Roam

The northwest corner is the stander in ground of wild guats, probably put ashere in far-off days, as the pirates did on the Spanish Main and other places where it might be necessary to establish a hide-out and find supplies ready to hand. There are said to be about there on Lundy; I saw two herds, one of 17 head and another of 12

Like all the goat family, the Lundy breed chooses the most inaccessible rocks and pre-

t patons cliffs for evercising purposes. I have bunted ther in the Hamalayay, as well as in the Tien Shan of Central Asia, but the Lundy goat can labb his own for negotiating had ground and for his speed downhill when alarmed.

In the late afternoon they come out to feed on the grass along the plateau, posting a sentinel walke the test of the bend feed. The watcher takes up a commanding position and keeps a careful lookout; not fee a member the him to a feed with the dawn or feed with the dawn or feed with

paceling mysteries of wild life. How to the grats accannot this each tasy descipling among themselves? Is it done by selection, or according to a roster, with a penulty for stall resorting to the continuous of the continuous starting to a roster.

Offen there are muraterous happenings in ornestian with the will a list. They exertise with exercise skill on precipices no man would three to climbalone. Ordinarily they are safe enough, but

we could be the fiber cools will the fact of some of as at some baby goal and close him to fall to be ceath on the rocks for below

A cabbageliste plant, new to science and probably unique in the plant world, has recently been discovered on the feland. Perhaps it is the cabbage of the ice age, a close reint would the first of all cal bares. Here it has been for a sudreds of years

The overlord told me Last this unusual calibrate is believed to be the surretor of all the obuges in the world; it is called Brancella and har the I better Wright, of Barn in the I better who discovered it

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Lighthouse Reepers and Shephord Join Visitors in "The Cup That Clayers"

On the invente unit harm the inevitable game of daris. Landy's eleven islanders are a more report to the order of set from the formal and their home. A 1939 bird contract to the first the first party of the first party of

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History has come and gone and bet it with nothing but a past. For centurie Lundy well, now it drennes away its obline, wind as a real to to the past sun-way at a control.

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the solution of feathlism, this a concept independent of feathlism, this a concept independent of the concept independent of the solution of the limits and all the limits and all the limits and there is still a will track in a cut the solution. Human history seems to have been blown away with the age!

No Lawyers; No Police

Lundy in spring and stanner is a least retreat, its sheltered combes gay with flowers and fetos. Pouring down these ravines are tiny streams of pure water. There are no snakes on the island. The inhart are of a dong well exaugh without a policy is recordal lawyer. Their domestic economy is an plicity itself. There is no doctor; you hardly need one with a soft climate and no micross.

This historic island, with stone remains doting back to the days when St. Patrick started
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to be back to the days when St. Patrick started
to be back to the days when St. Patrick started
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Hold on to your scalps!

You should see the Chief in movies!

What a sequence you'd have if your own novie camera had cauciat han in it e gior ous, true colors of John Abson Color Film!

Whatever your subject may be, if you want nour makes to be especially near on, take them in the time, liteline color of Anson Color From. The 16mm size is made in 50-1 and 100-foot lengths

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Clock and Dagger Mystery (Solving time: 2 minutes)

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Mirage on Main Street

• A recent survey of public opinion indicated that lots of folks have been "seeing" a mirage of nalroad profes that weren't there.

Most people thought that 10% would be a fair profit for railroads—nine out of ten said 6% or more would be fair. But the fact is that the milroads don't come out anywhere near that well

In the years since 1938 – four of them war years of tremendous to the—the milroads earned at the up- of only 4% per year on their net or vestment in tracks, cars, engines, shops, stations and all the things it takes to produce the rail service which the nation needs.

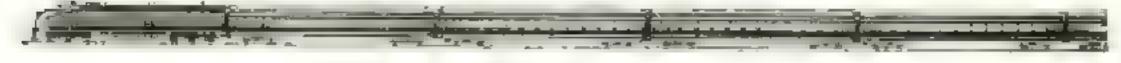
In 1946—with wages and prices of material and fuel up more than 50% above prewar levels—tailroads still bouled freight at prewar rates. Even with a slight rate increase during the last

half of the year, earnings on met investment dropped to an average of only 234%. Some rall-toads earned more, but others showed no profit at all—were, indeed, in the red for the year of the heaviest peacetime traffic in history.

At the end of 1946, the Interstate Commence Commession authorized higher freight rates to become effective in 1947. These increases will help railroads meet their rising coses, and will give them a better chance to improve equipment, toadways, and other facilities—improvements necessary for continually better service.

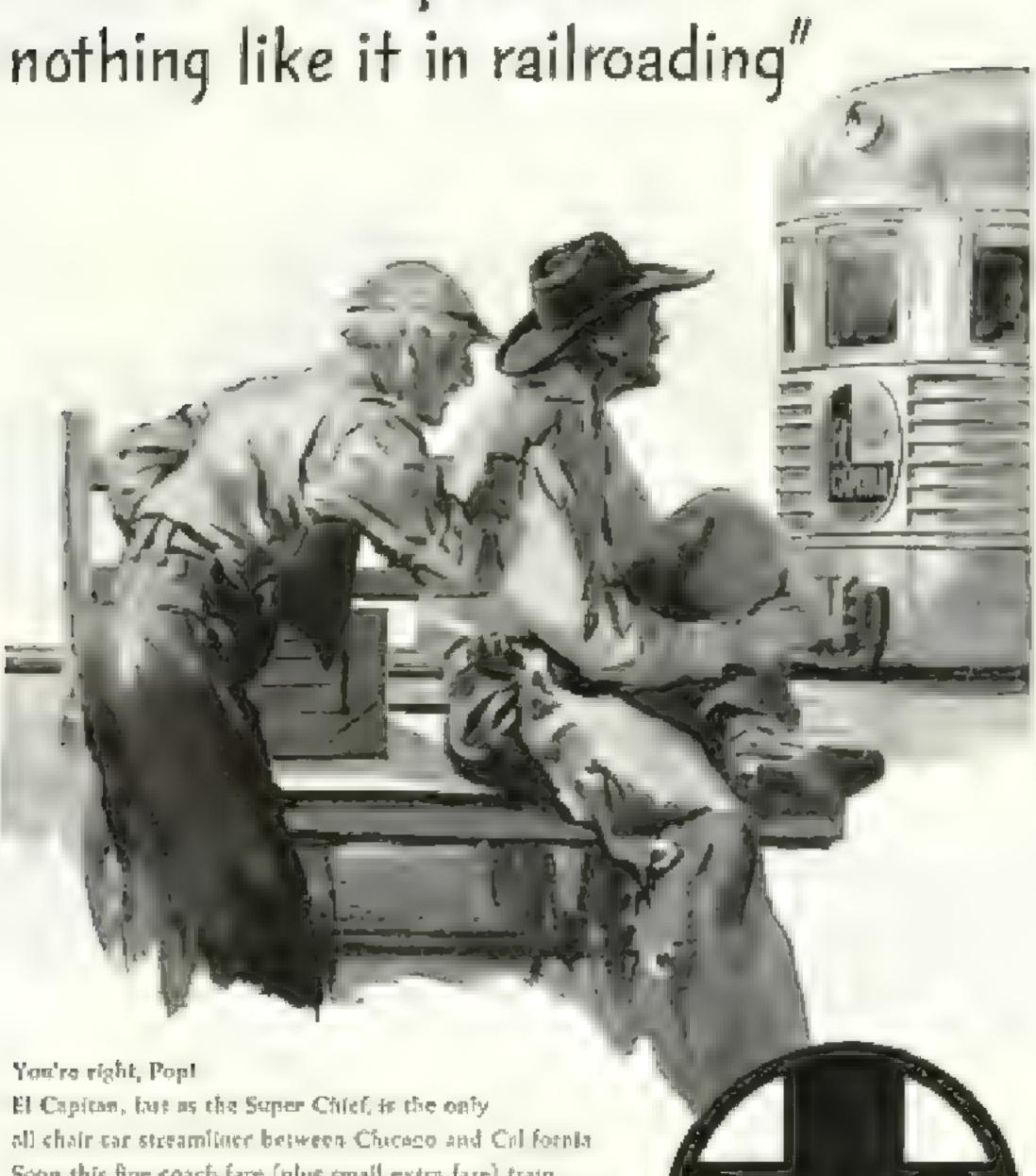
But even with these increases, in 1947 milmade as a whole will probably average little more than 3% on their investments—just about half the 6% which is as little as anyone would consider a falt profit.

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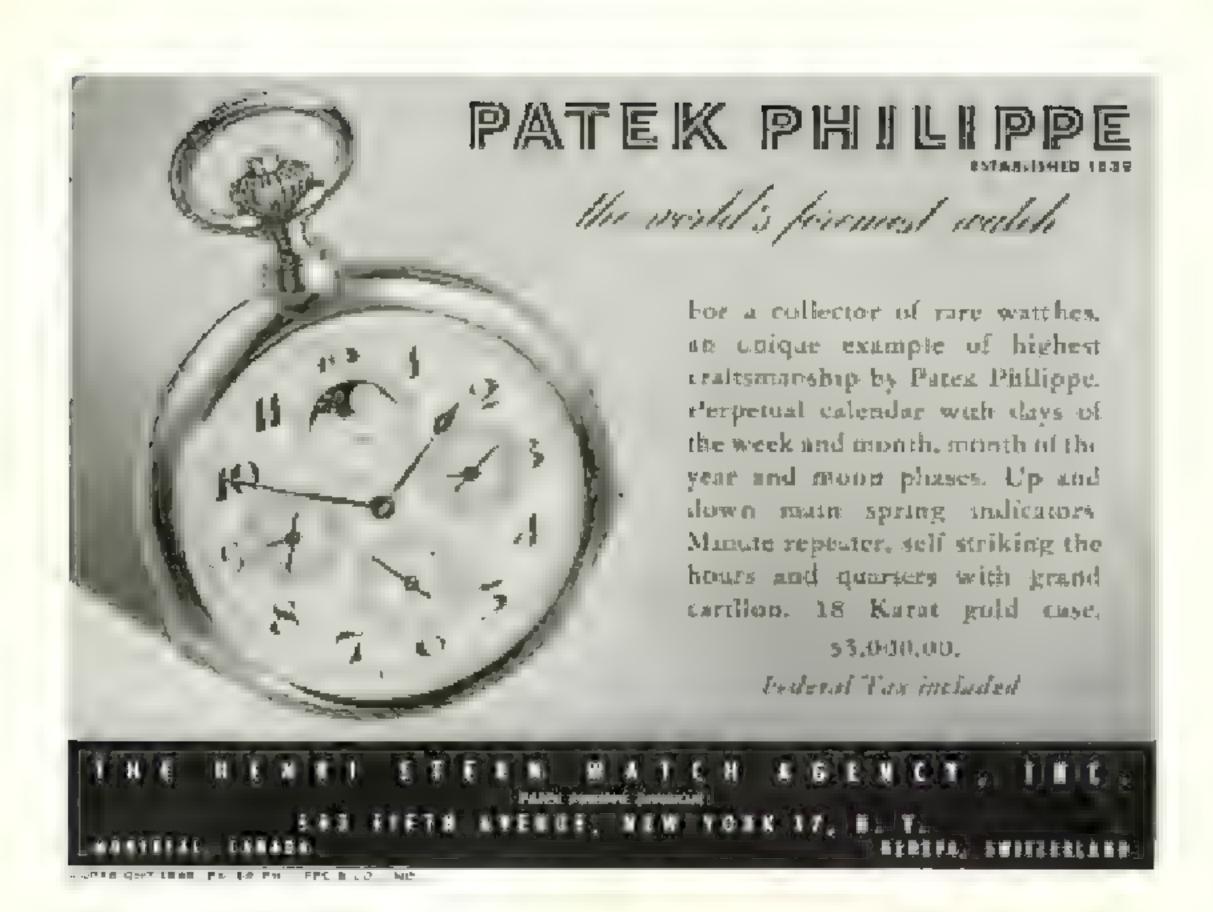
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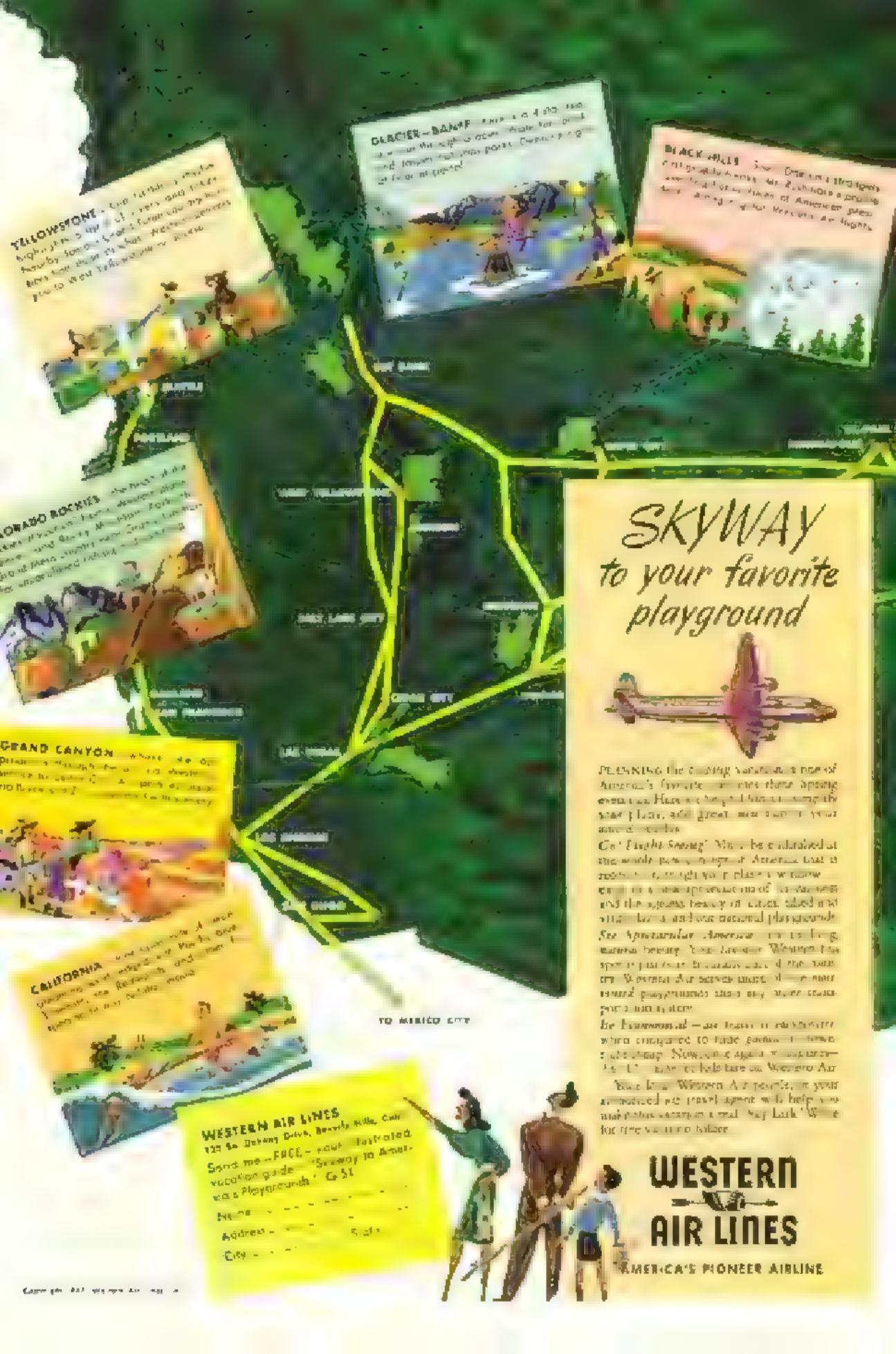
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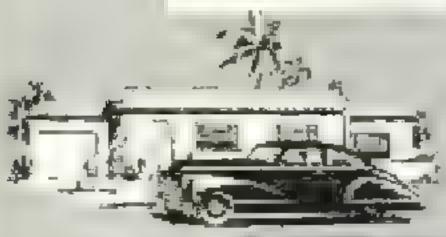


Tale of Two Cities

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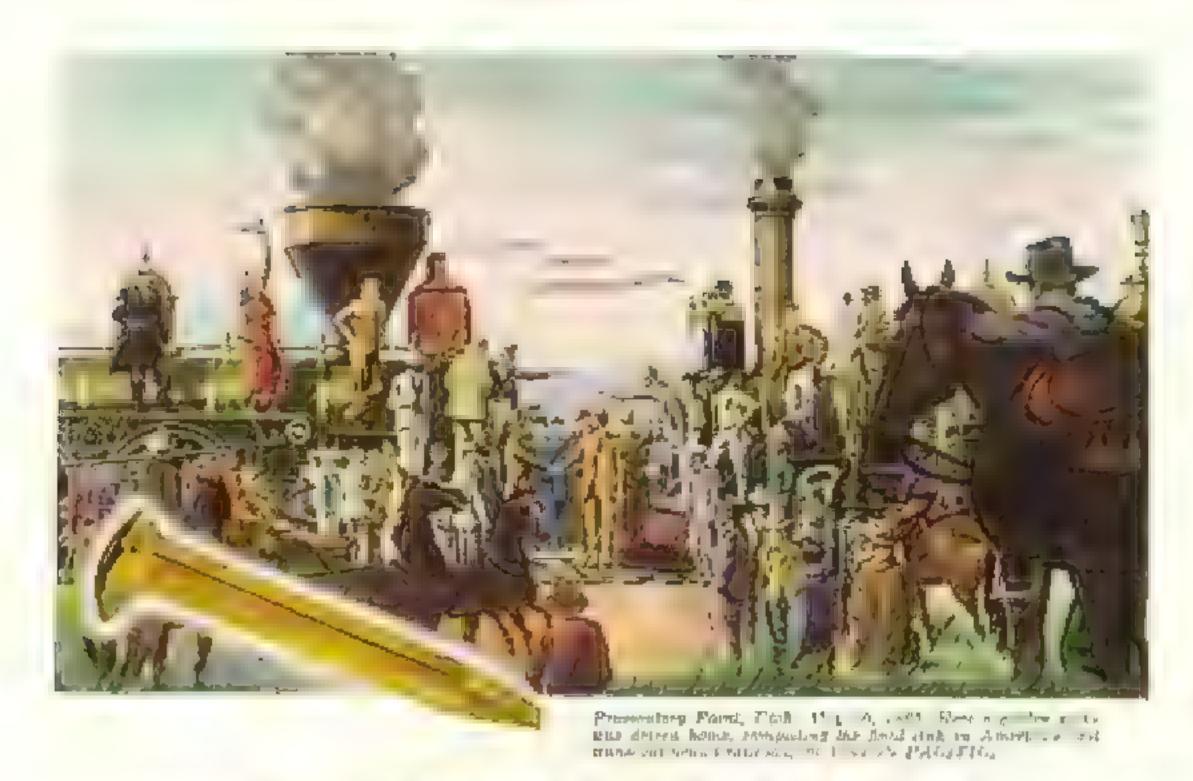




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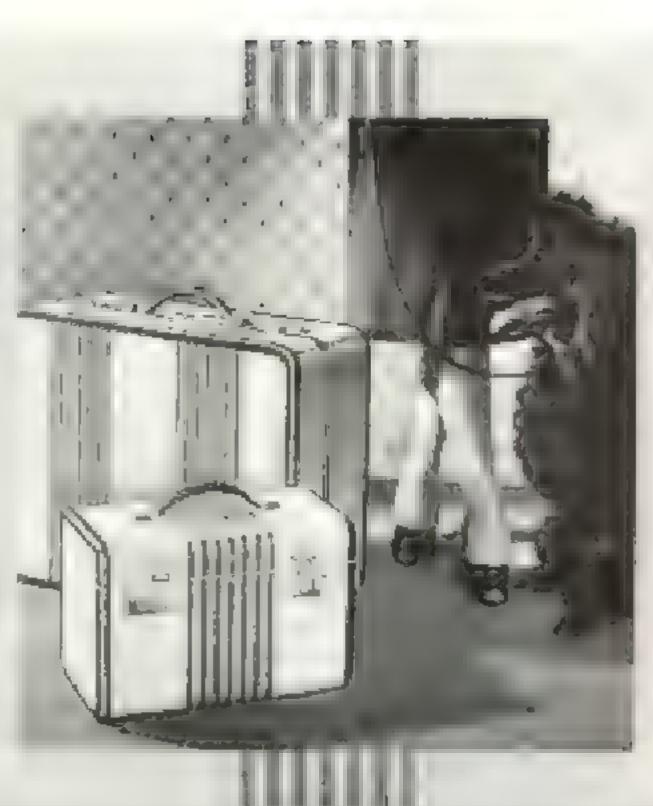
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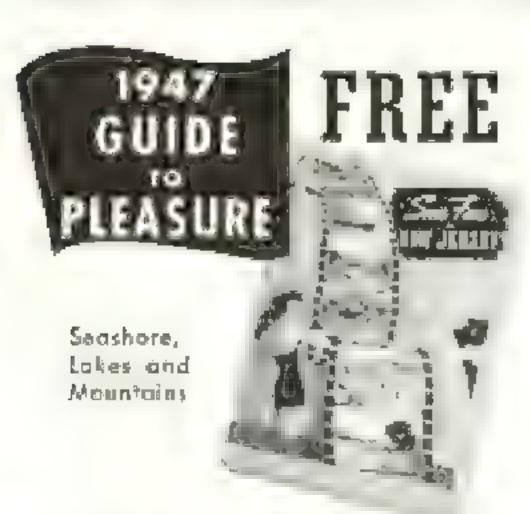
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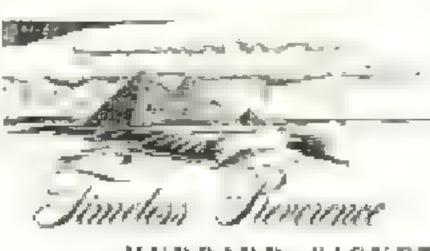
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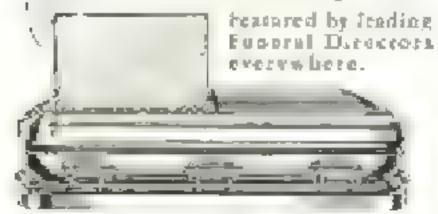
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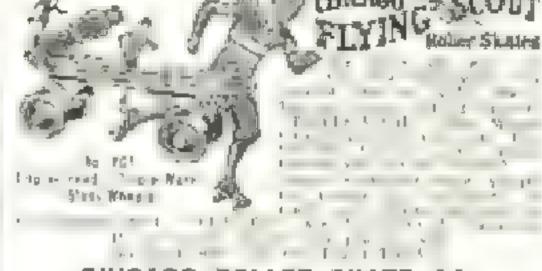
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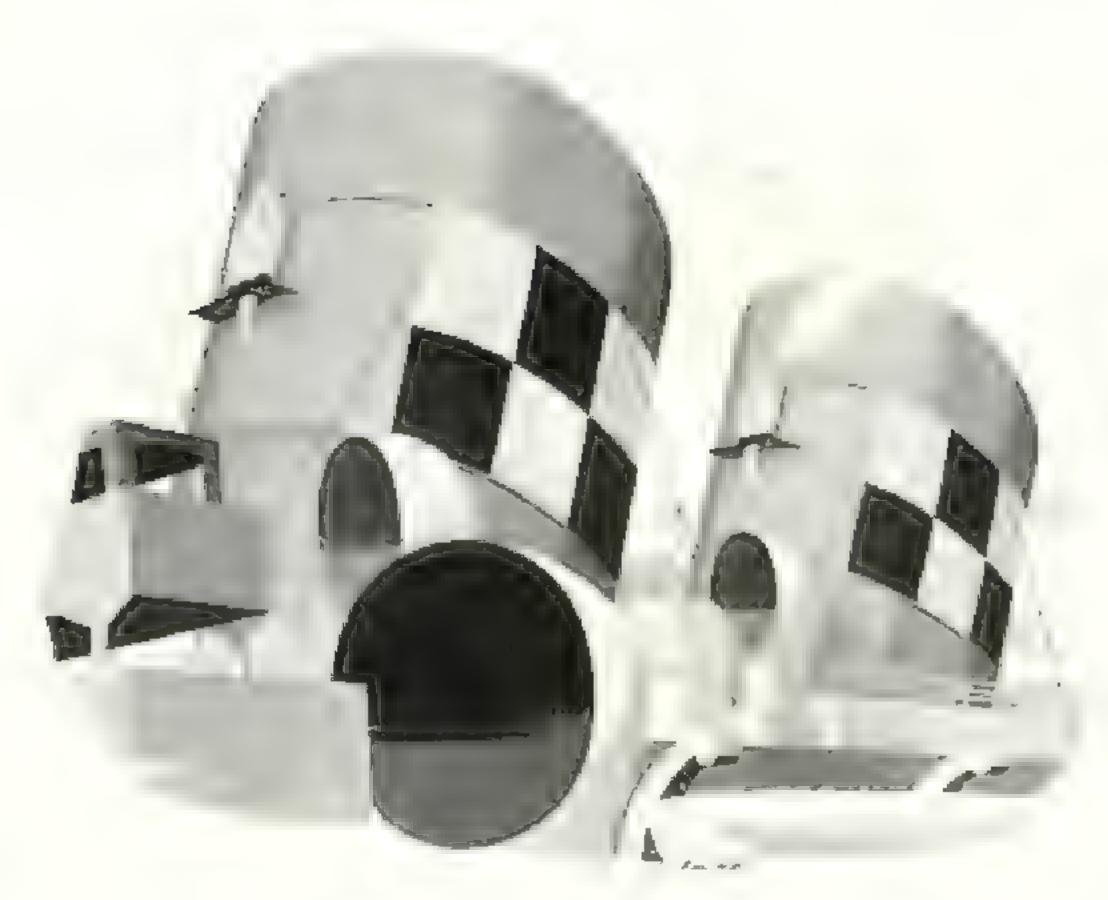
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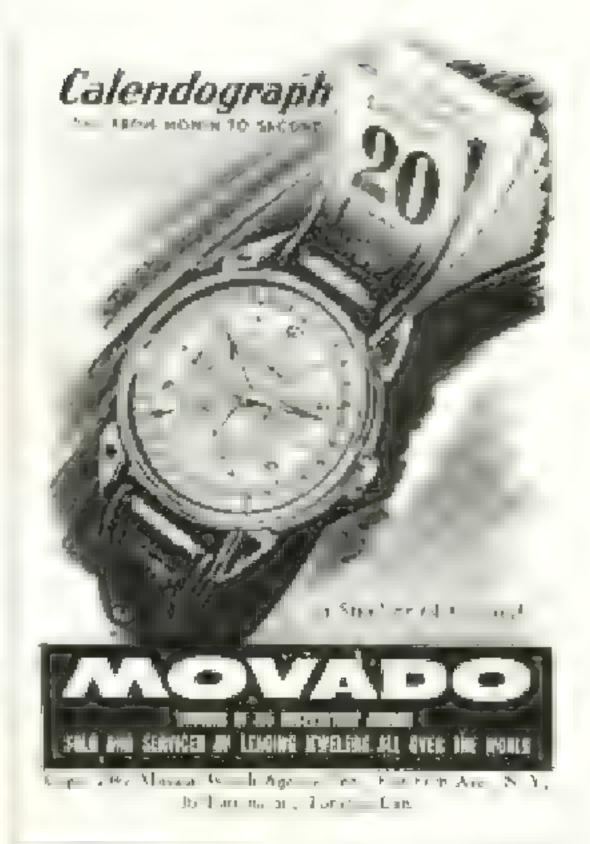
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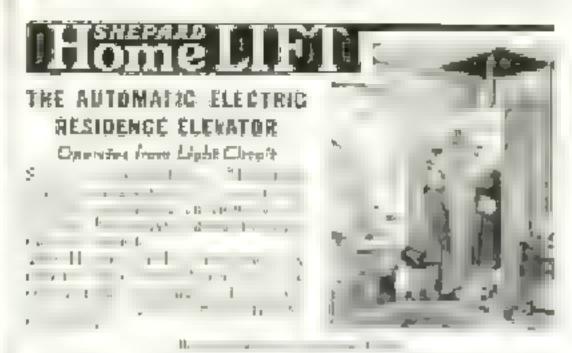
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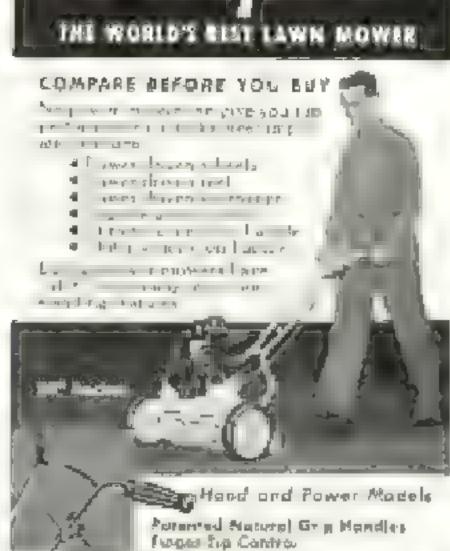
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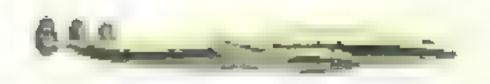


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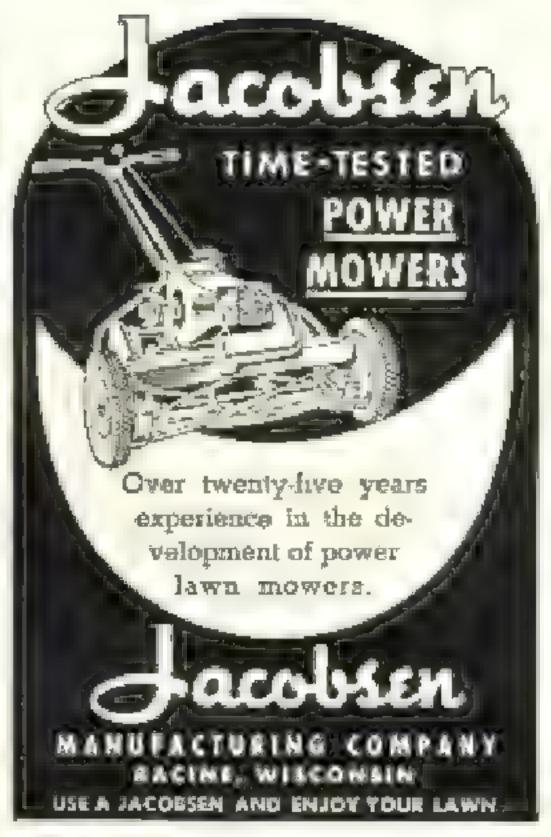


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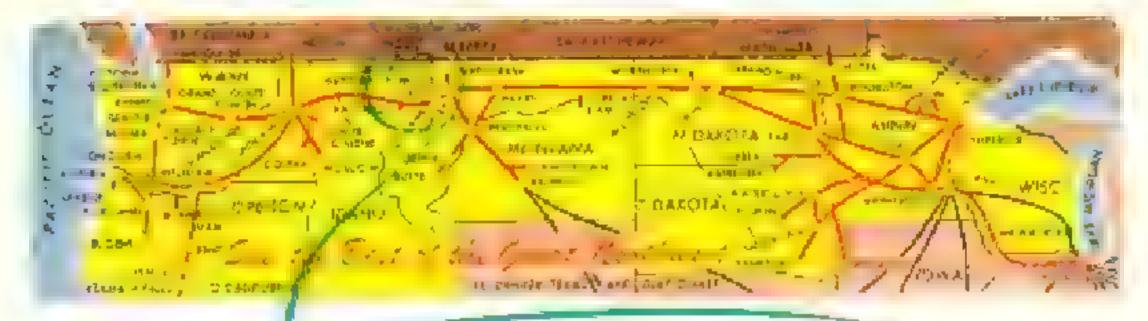
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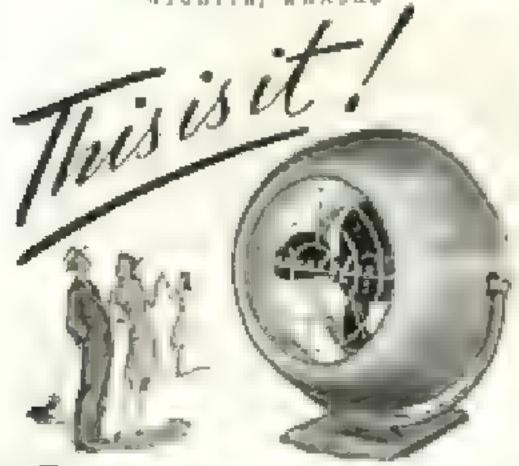
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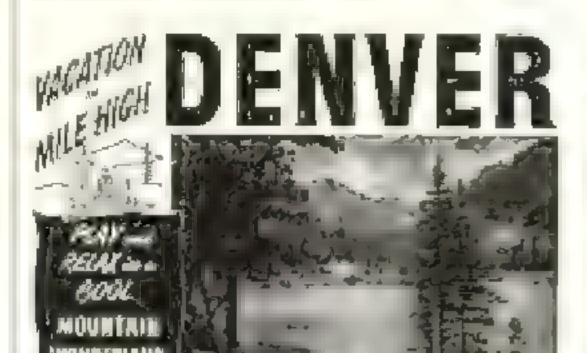
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Princip of Del Man, August 5 to Sept 30 ... at Colomb, Ond Mexico precy Somelay * Dody harbor being release over 25 males of land or had buy. * Sports belong boats on dady achedrate Reservances accessary Nowhere a se to California and between and belong trees so somewhere a sent board guests. * Util Mexicon to ones. * Startlight operas Broog years contains and being tempts? It a condition reportable.

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TUBERCULOSIS?



Q. Is there hope of conquering tuberculosis?



A. I night there is Since 1903 the want visible rate from tulare in is has been reduced from over 200 per 100,000 to under 401 Many number-ties say that by continuing a well-planned, farceful campaign, with public or profession and the from the exculser may be threat wiped out as the real twenty years.

Q. What are the important steps in this campaign?

A. First; constant effort to find and to a party cases in the early rough, when the disease is easier to control. Second; adequate treatment for active cases, preferably hospital care, which will help to avoid inferting others 'I' int. proper care for people who have but a degree sets. Including medical supervision and occupational guadance to prevent recurrence Fourth: a drive to eliminate poor health havits and conditions what, invite tubercauses.



Q. Why are periodic examinations so important?



A Telegrationic cope tells in the period of a often has a symptotical for discovery then depends on a thorough medical examination, sided by X-ray. Such examinations are particularly important among adults, especially older persons, workers exposed to since dust, and other special groups which have high tuberculous destinantes.

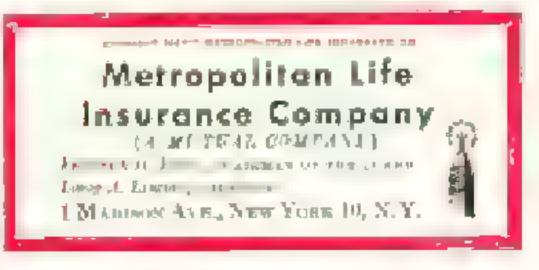
Don't let tuberculosis frighten you

Today, through modern medical skale, most case at referencess can be controled if caught in time. The earlier that treatment is started, the better are the chances for a prompt and lesting once.

If you should have taberculosis, your physicians will recommend treatment, probably in a satisfacture. Once the disease is brought under contrasty of a mainly return to a normal way of living, with periodic checkups to make sure the disease does not become active again. You should feathfully follow your destor's instructions in order to speed recovery and maintain

good health ofterward.

figurar medical examinations provide comforting researcher even if you don't have tuherculosis, and engrest immediate treatment if the disease should be detected. For further information about such examinations and about the disease itself, ask your physicism, public heald officer, or bout Tuberculous Association.



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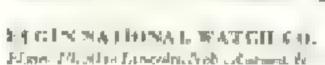
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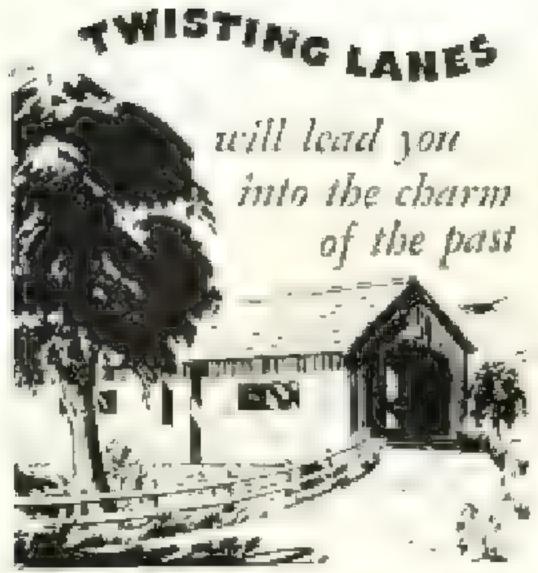
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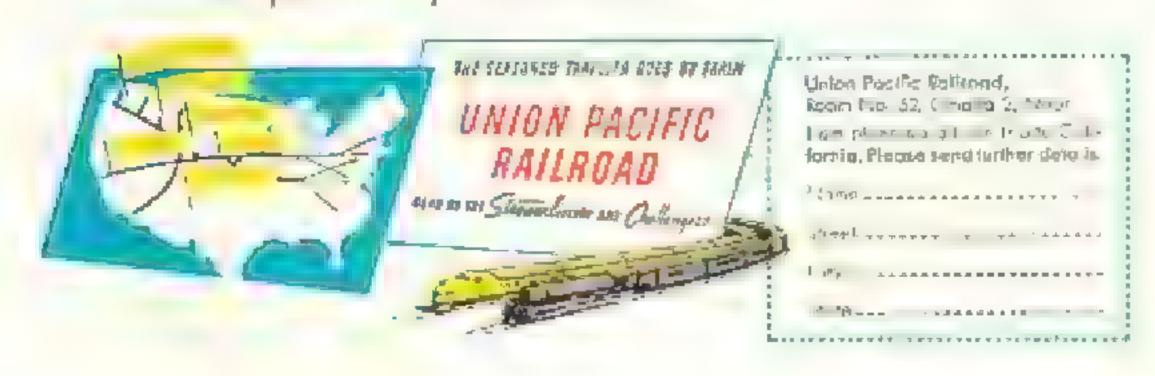
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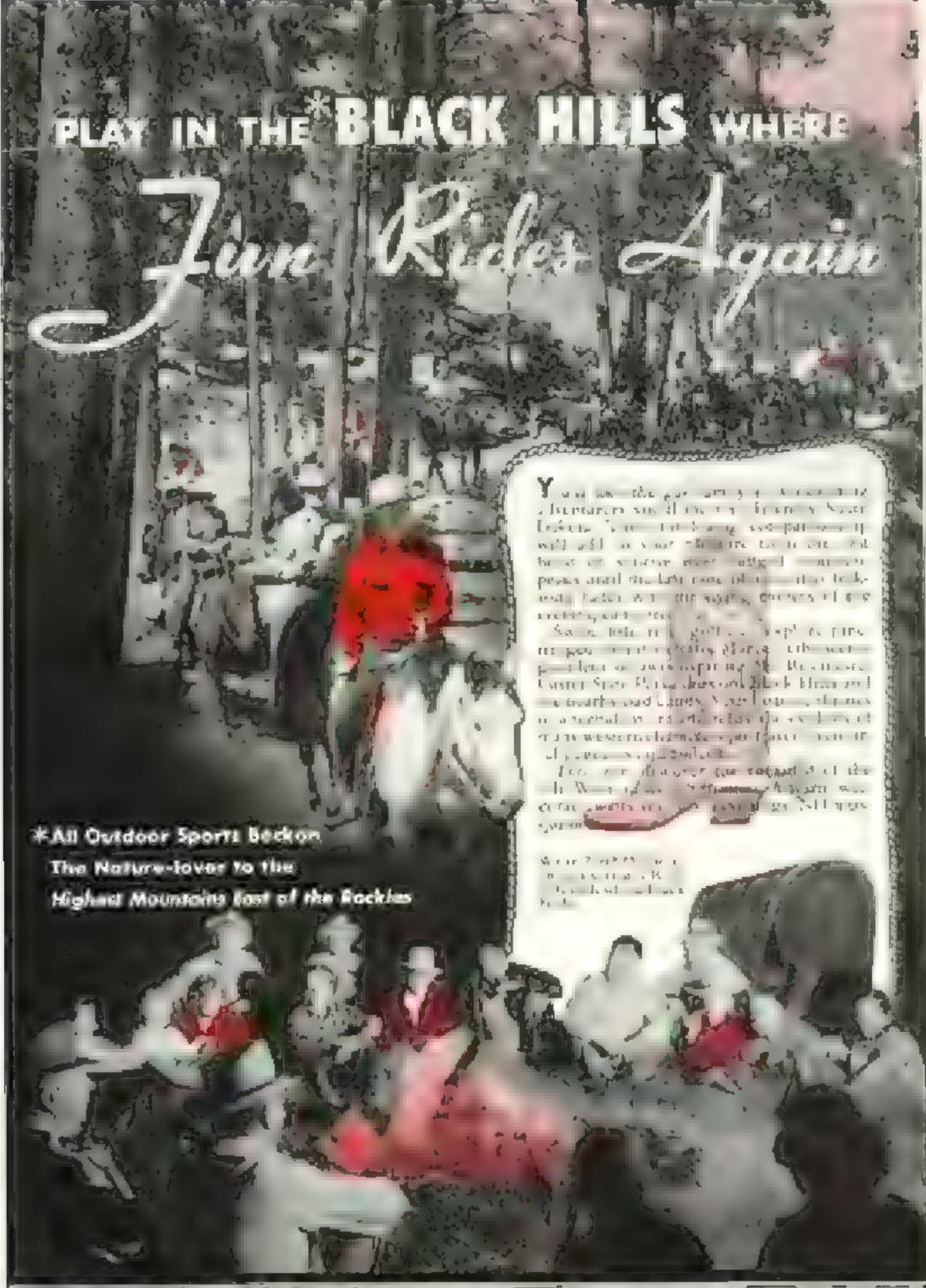






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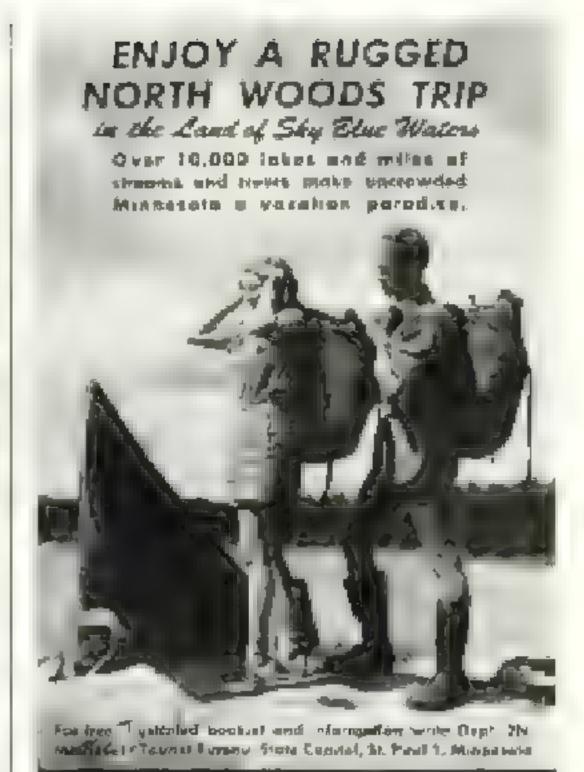
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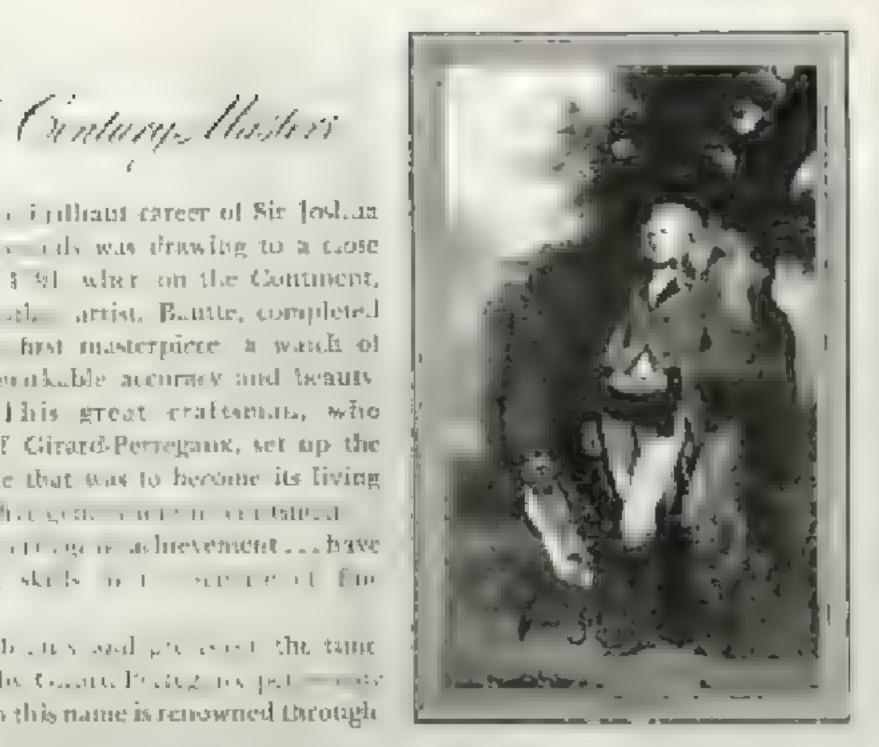
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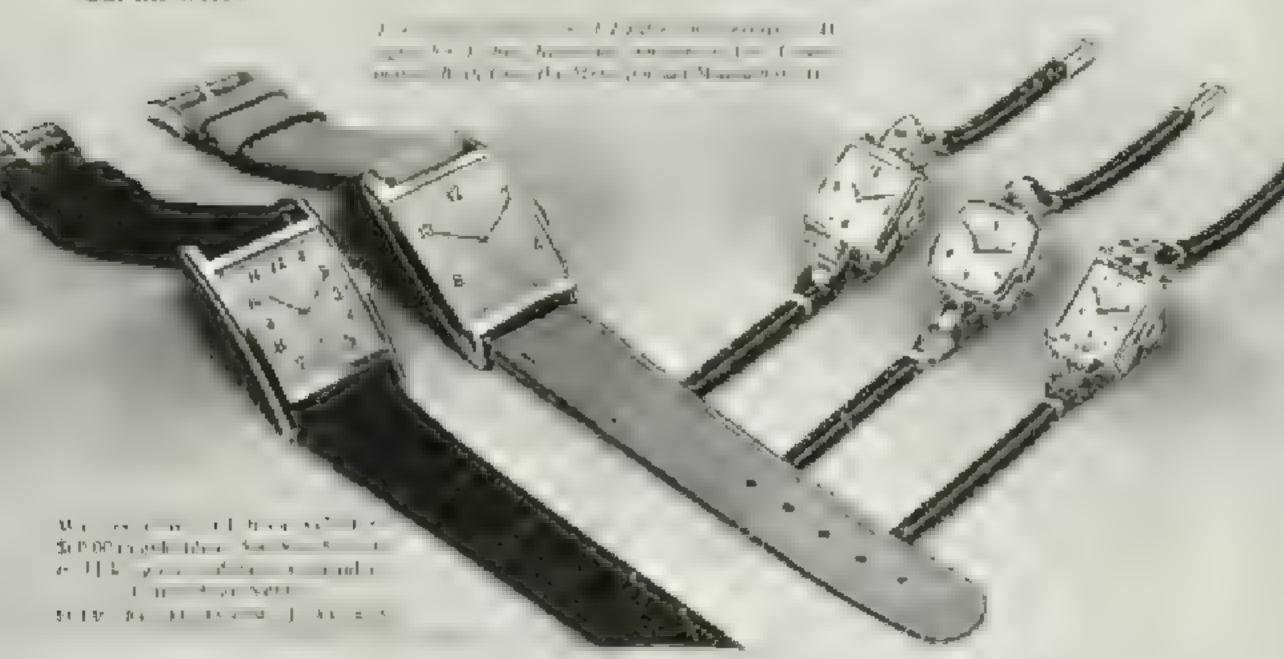


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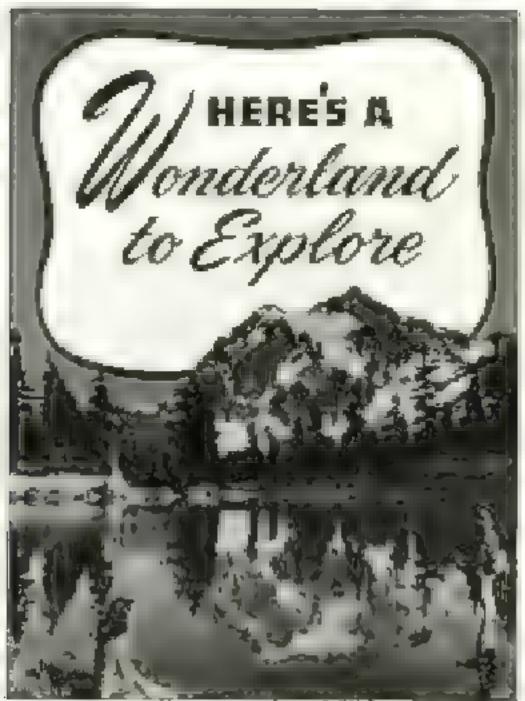




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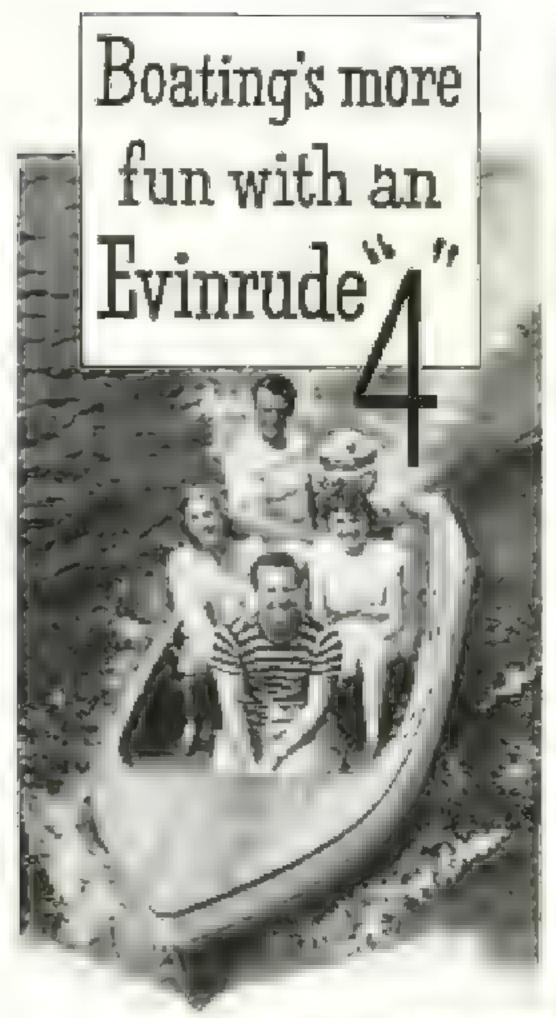
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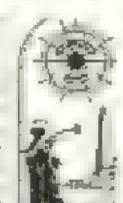
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